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DATA FOR NASA's AVE VI EXPERIMENT: 25-MB SOUNDING DATA AND SYNOPTIC CHARTS

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December 1977

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George C. Marshall Space Flight Center
Marshall Space Flight Center, Alabama

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16. ABSTRACT

This report describes the AVE VI Experiment and presents tabulated rawinsonde data at 25-mb intervals from the surface to 25 mb for the 22 stations participating in the experiment. Soundings were taken between 0000 GMT May 27 and 1200 GMT May 28, 1977. The methods of data processing and the accuracy are briefly discussed. Synoptic charts prepared from the data are presented together with an example of contact data.

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DATA FOR NASA'S AVE VI EXPERIMENT: 25-MB SOUNDING DATA AND SYNOPTIC CHARTS

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I. Introduction

To date, NASA has conducted five Atmospheric Variability Experiments (AVE) and two Atmospheric Variability and Severe Storm Experiments (AVSSE). The dates, observation times, and data reports are detailed in Table 1. This report contains the data and information concerning AVE VI.

The AVE experiments are conducted primarily for the purpose of studying atmospheric variability with emphasis on spatial and temporal changes in the structure of the atmosphere that could be determined from soundings taken at 3-h intervals and would not be detected in soundings taken at 12-h intervals. Studies, in fact, have shown significant variability and changes in atmospheric structure from the 3-h data that are not present in the 12-h data (Scoggins et al., 1973; Overall and Scoggins, 1975; and Wilson and Scoggins, 1975).

The data reduction program and error analysis have been presented by Fuelberg (1974).

II. The AVE VI Experiment

Twenty-two rawinsonde stations participated in the AVE VI experiment. A list of these stations is presented in Table 2, and their locations are mapped in Figure 1. Soundings were taken at eight times: May 27, 1977 at 0000 GMT, 1200 GMT, 1500 GMT, 1800 GMT, 2100 GMT, and May 28 at 0000 GMT, 0300 GMT, and 1200 GMT.

The main objectives of the AVE VI experiment are to compare satellite data with rawinsonde data and to investigate the structure and dynamics of the atmosphere associated with severe storms (with particular interests

Table 1. Summary of AVE experiments.

Experiment	Dates	Observation Times (GMT)	Data Reports
AVE I	19-22 February 1973	2/19 - 00, 03, 06, 09, 12, 15, 18, 21 2/20 - 00, 13, 16, 19, 12, 15, 18, 21 2/21 - 00, 03, 06, 09, 12, 15, 18, 21 2/22 - 00, 03, 06, 09, 12, 15, 18, 21 2/23 - 00	Scoggins and Smith (1973a and b)
AVE II	11-12 May 1974	5/11 - 12, 15, 18, 21 5/12 - 00, 03, 06, 09, 12	Scoggins and Turner (1974) Fuelberg and Turner (1974)
AVE III	6-9 February 1975	2/6 - 00, 06, 12, 15, 18, 21 2/7 - 00, 06, 12	Fuelberg and Turner (1975)
AVE IV	24-25 April 1975	4/24 - 00, 06, 12, 15, 18, 21 4/25 - 00, 06, 12	Fucik and Turner (1975)
AVSSE I	27-28 April 1975	4/27 - 12, 15, 18, 21 4/28 - 00, 03, 12	Fucik and Turner (1975)
AVSSE II	6-7 May 1975	5/6 - 12, 15, 18, 21 5/7 - 00, 03, 12	Fucik and Turner (1975)
AVE V	11-12 June 1976	6/11 - 00, 12, 15, 18, 21 6/12 - 00, 03, 12	Humbert and Hill (1977)
AVE VI	27-28 May 1977	5/27 - 00, 12, 15, 18, 21 5/28 - 00, 03, 12	This Report

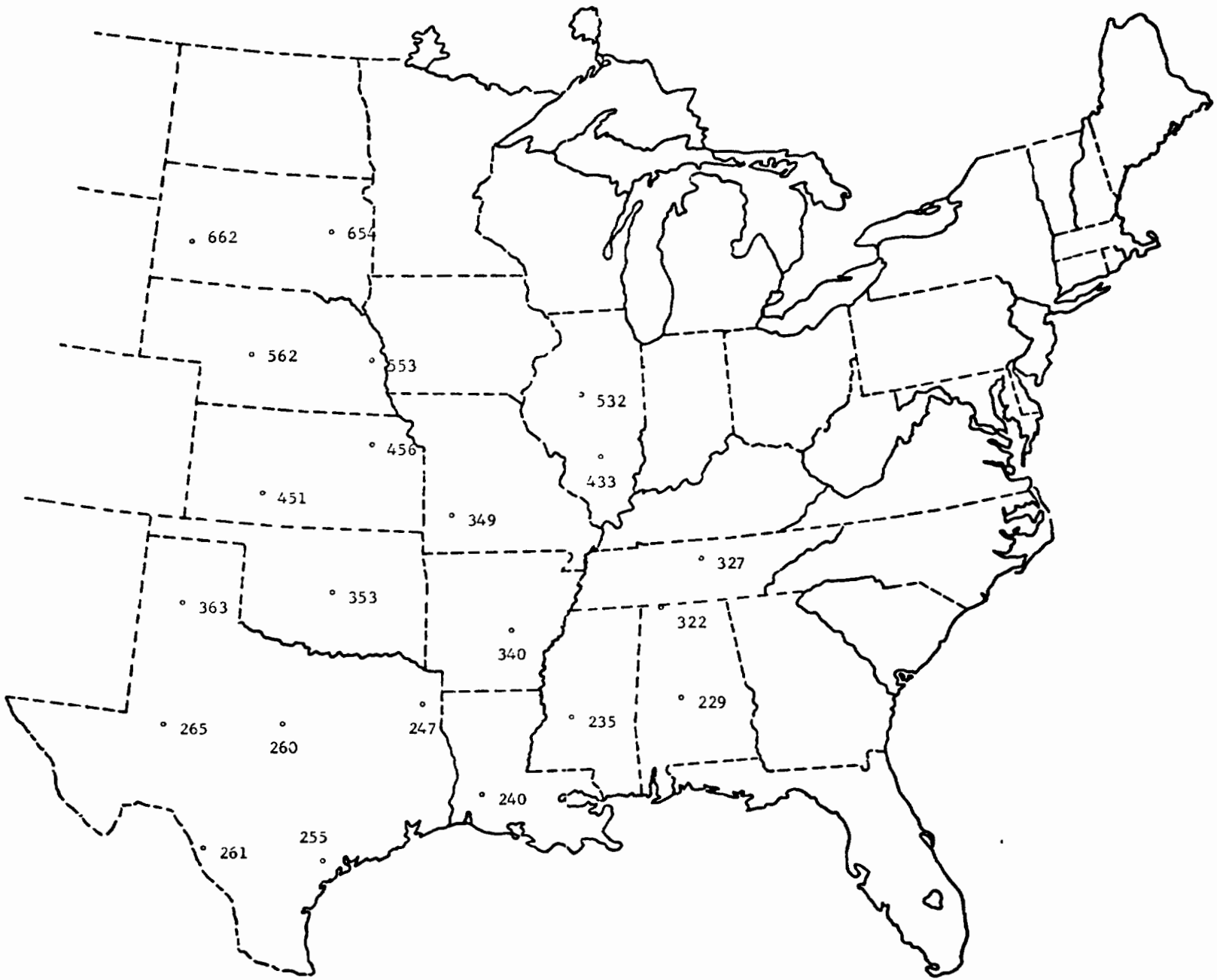


Fig. 1. Rawinsonde stations participating in the AVE VI experiment.

Table 2. Rawinsonde stations participating in AVE VI experiment.

Station Number	Location
229 (CKL)	Centerville, Alabama
235 (JAN)	Jackson, Mississippi
240 (LCH)	Lake Charles, Louisiana
247 (GGG)	Longview, Texas
255 (VCT)	Victoria, Texas
260 (SEP)	Stephenville, Texas
261 (DRT)	Del Rio, Texas
265 (MAF)	Midland, Texas
322 (MSL)	Marshall Space Flight Center, Alabama
327 (BNA)	Nashville, Tennessee
340 (LIT)	Little Rock, Arkansas
349 (UMN)	Monett, Missouri
353 (OKC)	Oklahoma City, Oklahoma
363 (AMA)	Amarillo, Texas
433 (SLO)	Salem, Illinois
451 (DDC)	Dodge City, Kansas
456 (TOP)	Topeka, Kansas
532 (PIA)	Peoria, Illinois
553 (OMA)	Omaha, Nebraska
562 (LBF)	North Platte, Nebraska
654 (HON)	Huron, South Dakota
662 (RAP)	Rapid City, South Dakota

once again focusing on temporal and spatial variability of atmospheric parameters). For these reasons, the AVE VI experiment was conducted during a period when much convective activity was present and rapid changes in the weather pattern were expected to occur.

III. Discussion of Basic Data

A. Collection of Data. Original information from which sounding data were computed was sent to the Atmospheric Sciences Division, NASA/ Marshall Space Flight Center (MSFC), Alabama. Texas A&M University personnel extracted data from all relevant charts, keypunched the data into cards, and computed the soundings using previously prepared computer programs.

B. Methods of Processing. The procedure used to compute soundings is similar to that used on the AVE III, IV, and V data and is described by Fuelberg (1974) and Fuelberg and Turner (1975). All keypunched data were checked for errors by calculating centered differences on the input

data. Additional checks included first differences of calculations temperatures and dew-point temperature as well as the plotting of constant pressure charts for 850, 700, 500, 300, and 200 mb for all release times and time cross sections for each station. Suspected erroneous data were thoroughly checked with the original "raw" data strip chart information and appropriate corrections made.

The final data set of the AVE VI experiment consists of data computed at each pressure contact and at 25-mb intervals. Thermodynamic quantities were computed at each pressure contact, while wind data were computed from 30- or 60-s interval angle data by means of a centered finite difference and interpolated for each contact or 25 mb level.

It is important to note three procedures employed in the processing of these data (these procedures were first used in the AVE III experiment). They are: 1) Humidity values, including dew-point temperatures, are computed at temperatures only above -40°C; at temperatures below -40°C, humidity values are missing and indicated by a field of nines (i.e., 99.9). Moisture values are computed down to a relative humidity of 1%. If the value falls below 1%, it is set equal to 1% and used in the computation of other moisture variables. 2) Winds based on low elevations are denoted by asterisks (one asterisk denotes angles less than 10° but greater than 6°, while two asterisks denote angles less than 6°). Caution must be exercised in the use of data at low elevation angles since it is subject to rather large RMS errors. 3) Wind direction and speed are determined from interpolating the 25-mb value of the u- and v-wind components. These procedures appear in both the contact and 25 mb data.

IV. Discussion of Sounding Data

A. Accuracy Estimates. Estimates of the RMS errors in the thermodynamic quantities of the AVE VI data are the same as those for all AVE experiments and are those given by Fuelberg (1974). These estimates are presented in Table 3.

The RMS errors for wind speed and direction are difficult to describe since they are a function of tracking geometry and other factors. Maximum RMS errors for winds computed at 30-s intervals (based on the worst geometric tracking configuration) are: at 700 mb, 2.5 m s^{-1} for an elevation angle of 10°, and 0.5 m s^{-1} for an elevation angle of 40°; at 500 mb,

Table 3. Estimates of the RMS errors in thermodynamic quantities of AVE VI data.

Parameter	Approximate RMS Error
Temperature	1°C
Pressure	1.3 mb from surface to 400 mb; 1.1 mb between 400 and 100 mb; 0.7 mb between 100 and 10 mb.
Humidity	10 percent
Pressure Altitude	10 gpm at 500 mb; 20 gpm at 300 mb; 50 gpm at 50 mb.

4.5 m s^{-1} and 0.8 m s^{-1} for the same elevation angles; and at 300 mb, 7.8 m s^{-1} and 1.0 m s^{-1}, respectively. After assuming typical values of scalar wind speed at the various levels, maximum RMS errors in wind direction were determined. The maximum RMS errors at 700 mb range from 9.5° for an elevation angle of 10° to 1.3° for an elevation angle of 40°. At 500 mb the errors are 13.4° and 1.8° for the same elevation angles, while at 300 mb the maximum errors are 18.0° and 2.5°, respectively. The accuracy of the wind data at pressure contacts and at 25-mb intervals is greater than that stated for the 30-s winds because of the added smoothing and interpolation performed. In addition, errors cited for the 30-s winds were maxima for the stated conditions.

B. Tabulated Data. An example of AVE VI contact data is given in Table 4, with an explanation of the column headings given in Table 5. A listing of those soundings that were missing or terminated before completion is given in Table 6 along with the reason for early termination. In Table 4, the first line of data for the time of 0.0 minutes is surface data. A series of nines is used to indicate missing data. The three numbers in the upper right-hand corner are the number of pressures computed, the minimum pressure obtained (mb), and an angle identifier with the value 0 for 30-s angle input and 1 for 1-min angle input. The contact data are available in paper form or on magnetic tape from the Atmospheric Sciences Division, George C. Marshall Space Flight Center, Alabama 35812.

STATION NO. 229
CENTERVILLE, ALABAMA

26 MAY 1977
2300 GMT

157 13. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	6.8	140.0	992.0	25.0	18.4	330.0	4.2	2.1	-3.6	298.8	334.8	13.6	67.0	0.0	0.
0.0	7.0	157.8	990.0	25.0	17.0	133.4	5.4	-3.9	3.7	299.0	332.0	12.5	61.3	0.5	164.
0.1	8.0	266.0	979.0	24.7	17.3	133.4	5.4	-3.9	3.7	299.7	333.7	12.8	63.2	0.5	164.
0.6	9.0	355.2	968.0	23.8	17.1	127.7	4.3	-3.4	2.6	299.7	333.7	12.8	66.1	0.4	166.
0.9	10.0	456.4	957.0	23.8	17.2	71.8	1.9	-1.8	-0.6	300.7	335.6	13.1	66.8	0.4	175.
1.3	11.0	575.0	944.0	22.4	16.2	354.1	4.3	0.4	-4.3	300.5	333.5	12.4	67.9	0.5	176.
1.5	12.0	677.1	933.0	21.7	16.4	345.1	6.3	1.6	-6.1	300.8	334.8	12.7	72.0	0.6	175.
1.9	13.0	770.6	923.0	20.4	16.1	341.2	6.0	1.9	-5.7	300.3	334.0	12.6	76.6	0.7	172.
2.2	14.0	874.4	912.0	19.7	16.1	339.2	6.0	2.1	-5.6	300.7	334.8	12.8	79.8	0.8	170.
2.5	15.0	966.5	902.0	18.5	15.9	337.9	6.0	2.3	-5.6	300.7	334.7	12.7	82.9	0.9	169.
3.0	16.0	1104.1	888.0	18.0	15.8	338.6	3.7	1.4	-3.5	301.2	335.6	12.9	87.3	1.1	167.
3.3	17.0	1201.3	878.0	16.9	15.5	343.7	2.4	0.7	-2.3	301.1	335.3	12.8	91.6	1.1	167.
3.6	18.0	1298.1	868.0	15.9	14.3	355.9	1.4	0.1	-1.4	301.0	332.9	11.9	90.2	1.1	167.
3.9	19.0	1397.8	858.0	15.3	14.0	13.6	1.0	-0.2	-1.0	301.3	333.2	11.8	92.2	1.2	167.
4.2	20.0	1497.5	848.0	14.7	13.6	39.5	0.9	-0.5	-0.7	301.7	333.1	11.6	93.3	1.2	168.
4.7	21.0	1618.2	836.0	13.5	12.6	67.1	1.1	-1.0	-0.4	301.7	331.6	11.1	94.7	1.2	169.
5.0	22.0	1719.7	826.0	12.7	11.8	69.5	1.3	-1.2	-0.4	301.9	330.7	10.6	94.6	1.2	170.
5.3	23.0	1822.5	815.0	11.7	10.9	75.4	1.5	-1.4	-0.4	302.0	329.6	10.2	94.9	1.2	171.
5.7	24.0	1925.7	805.0	11.5	10.7	80.2	1.7	-1.7	-0.3	302.8	330.3	10.1	94.5	1.2	173.
6.0	25.0	2040.6	795.0	10.2	7.9	82.3	1.9	-1.9	-0.3	302.6	325.9	8.5	85.8	1.2	175.
6.4	26.0	2157.4	783.0	10.0	6.5	74.1	2.2	-2.1	-0.6	303.7	325.3	7.8	78.7	1.2	177.
6.8	27.0	2269.7	774.0	9.3	6.4	74.2	2.3	-2.2	-0.6	303.9	325.6	7.9	82.2	1.2	180.
7.0	28.0	2371.5	764.0	8.3	5.1	75.4	2.3	-2.2	-0.6	304.0	324.2	7.2	79.9	1.2	181.
7.4	29.0	2480.6	754.0	8.0	4.5	70.7	2.4	-2.3	-0.8	304.8	324.5	7.0	78.6	1.2	183.
7.9	30.0	2579.7	745.0	7.1	2.9	68.1	2.6	-2.4	-1.0	304.9	322.7	6.3	74.4	1.3	186.
8.0	31.0	2691.0	735.0	6.9	2.0	67.2	2.6	-2.4	-1.0	305.8	323.0	6.1	71.1	1.3	187.
8.4	32.0	2792.3	725.0	6.4	1.1	69.0	2.5	-2.4	-0.9	306.3	322.7	5.7	69.1	1.3	190.
8.8	33.0	2905.1	716.0	5.7	-1.1	63.3	2.6	-2.3	-1.2	306.8	321.1	5.0	61.8	1.3	192.
9.2	34.0	3008.6	707.0	5.1	-1.7	55.7	2.7	-2.2	-1.5	307.3	321.2	4.8	61.3	1.4	194.
9.6	35.0	3114.3	698.0	4.6	-3.0	49.7	2.8	-2.1	-1.8	307.9	320.7	4.4	57.5	1.4	195.
10.0	36.0	3243.7	687.0	4.3	-5.8	46.6	2.8	-2.0	-1.9	308.9	319.6	3.6	47.6	1.5	197.
10.5	37.0	3353.0	677.0	3.6	-7.8	41.2	3.2	-2.1	-2.4	309.4	318.9	3.2	43.1	1.6	198.
10.8	38.0	3471.6	668.0	3.3	-8.7	37.2	3.5	-2.1	-2.8	310.2	319.2	3.0	41.0	1.6	199.
11.2	39.0	3569.1	660.0	2.1	-7.1	33.8	3.7	-2.0	-3.0	310.0	320.1	3.4	50.4	1.7	200.
11.5	40.0	3680.0	651.0	1.8	-4.9	32.3	3.6	-1.9	-3.1	310.8	323.0	4.1	61.3	1.8	200.
12.0	41.0	3817.3	640.0	0.6	-4.2	31.3	4.1	-2.1	-3.5	311.0	324.0	4.4	70.2	1.9	201.
12.3	42.0	3930.9	631.0	-0.4	-9.0	30.8	4.2	-2.2	-3.6	311.2	321.2	3.3	56.4	2.0	201.
12.6	43.0	4045.9	622.0	-0.7	-10.1	29.8	4.2	-2.1	-3.7	312.1	320.8	2.8	48.7	2.0	202.
13.0	44.0	4149.3	614.0	-0.7	-10.2	26.4	4.0	-1.8	-3.5	313.3	322.0	2.9	48.5	2.1	202.
13.4	45.0	4267.2	605.0	-1.5	-13.4	21.4	4.3	-1.6	-4.0	313.7	320.4	2.2	36.5	2.2	202.
13.7	46.0	4373.1	597.0	-2.1	-32.7	19.8	4.2	-1.4	-3.9	314.1	315.5	0.4	7.4	2.3	202.
14.0	47.0	4493.5	588.0	-3.1	-31.9	18.3	4.0	-1.2	-3.8	314.4	315.9	0.4	8.6	2.4	202.
14.4	48.0	4631.8	580.0	-3.7	-29.9	14.6	3.6	-0.9	-3.5	314.9	316.7	0.5	10.9	2.5	202.
14.8	49.0	4711.4	572.0	-4.5	-7.9	5.8	3.4	-0.3	-3.4	315.3	326.4	3.7	76.6	2.6	201.
15.1	50.0	4836.3	563.0	-5.2	-10.2	356.8	3.2	0.2	-3.2	315.8	325.4	3.1	66.0	2.6	201

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

Table 4. Example of contact data from the AVE VI experiment.

STATION NO. 229
CENTERVILLE, ALABAMA

26 MAY 1977
2300 GMT

157 13. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
15.6	51.0	4976.9	553.0	-6.1	-11.8	327.0	2.9	1.1	-2.6	316.3	325.0	2.8	64.1	2.7	200.
16.0	52.0	5050.9	545.0	-6.6	-20.5	325.9	2.7	1.5	-2.2	317.1	321.5	1.4	31.8	2.7	199.
16.5	53.0	5206.3	537.0	-7.6	-15.9	320.5	2.2	1.4	-1.7	317.2	323.7	2.1	51.2	2.8	198.
17.1	54.0	5327.0	529.0	-8.4	-20.9	316.0	1.4	1.0	-1.0	317.7	322.1	1.4	35.5	2.9	196.
17.9	55.0	5441.1	521.0	-9.1	-23.8	8.8	0.9	-0.1	-0.8	318.2	321.7	1.1	29.1	2.8	196.
18.7	56.0	5575.8	512.0	-9.7	-31.7	55.1	1.7	-1.4	-1.0	319.1	320.9	0.5	14.6	2.9	196.
19.3	57.0	5712.5	503.0	-10.5	-37.4	62.3	2.6	-2.3	-1.2	319.6	320.7	0.3	8.8	2.9	197.
19.8	58.0	5820.2	496.0	-11.1	-36.6	59.2	3.4	-2.9	-1.7	320.2	321.4	0.3	10.0	3.0	198.
20.2	59.0	5944.7	488.0	-12.1	-34.2	55.1	4.0	-3.3	-2.3	320.5	322.0	0.4	13.8	3.1	199.
20.7	60.0	6071.0	480.0	-12.7	-33.5	50.6	4.6	-3.5	-2.9	321.3	322.9	0.5	15.3	3.2	201.
21.2	61.0	6193.0	473.0	-13.5	-33.6	46.4	5.0	-3.6	-3.5	321.6	323.3	0.5	16.4	3.3	202.
21.7	62.0	6312.5	465.0	-14.5	-28.5	44.0	5.7	-4.0	-4.1	322.0	324.6	0.8	29.3	3.5	203.
22.0	63.0	6427.3	459.0	-15.1	-30.3	44.0	6.0	-4.2	-4.4	322.7	325.0	0.7	25.6	3.6	204.
22.5	64.0	6543.7	451.0	-15.6	-30.2	43.6	7.4	-5.1	-5.4	323.4	325.8	0.7	27.2	3.7	205.
22.8	65.0	6661.6	444.0	-16.3	-32.2	43.6	8.1	-5.6	-5.8	324.0	326.0	0.6	23.7	3.9	205.
23.1	66.0	6815.3	435.0	-17.5	-32.4	43.9	8.4	-5.9	-6.1	324.3	326.3	0.6	25.7	4.0	206.
23.5	67.0	6954.0	427.0	-18.6	-37.6	45.5	8.1	-5.8	-5.7	324.7	325.9	0.3	16.8	4.2	207.
23.9	68.0	7077.2	420.0	-19.2	-37.8	45.5	8.0	-5.7	-5.6	325.5	326.8	0.3	17.4	4.4	208.
24.2	69.0	7201.9	413.0	-20.4	-40.1	45.0	8.0	-5.7	-5.7	325.5	326.5	0.3	15.0	4.5	209.
24.6	70.0	7310.0	407.0	-21.6	-44.9	44.6	8.1	-5.7	-5.8	325.3	326.0	0.2	10.0	4.7	209.
25.0	71.0	7456.0	399.0	-22.8	-53.1	44.2	8.3	-5.9	-5.8	325.6	325.9	0.1	4.3	4.9	209.
25.4	72.0	7585.6	392.0	-23.3	-54.8	46.8	8.2	-6.0	-5.6	326.6	326.7	0.0	1.0	5.1	210.
25.9	73.0	7717.4	385.0	-23.8	-66.1	48.4	8.0	-6.0	-5.3	327.6	327.6	0.0	1.0	5.3	211.
26.4	74.0	7851.1	378.0	-24.9	-65.8	48.7	8.0	-6.0	-5.3	327.9	328.0	0.0	1.0	5.6	212.
26.9	75.0	7967.2	372.0	-25.9	-63.3	48.1	8.6	-6.4	-5.6	328.0	328.1	0.0	1.6	5.8	212.
27.2	76.0	8104.4	365.0	-27.3	-53.7	48.2	8.9	-6.7	-6.0	328.1	328.3	0.1	6.0	6.0	213.
27.8	77.0	8223.5	359.0	-28.4	-51.3	49.6	9.3	-7.1	-6.0	328.0	328.4	0.1	9.0	6.3	214.
28.2	78.0	8344.3	352.0	-29.6	-52.1	51.0	9.4	-7.3	-5.9	328.3	328.6	0.1	9.1	6.5	214.
28.9	79.0	8436.7	346.0	-30.7	-5 .9	51.4	9.5	-7.5	-6.0	328.5	328.9	0.1	8.1	6.9	215.
29.3	80.0	8610.7	340.0	-31.4	-58.0	51.2	9.8	-7.6	-6.1	329.1	329.2	0.0	5.3	7.1	216.
30.0	81.0	8778.9	332.0	-32.6	-60.6	54.3	9.6	-7.8	-5.6	329.7	329.8	0.0	4.2	7.5	217.
30.5	82.0	8907.1	326.0	-33.8	-61.3	57.1	9.6	-8.0	-5.2	329.8	329.9	0.0	4.3	7.8	217.
31.0	83.0	9037.0	320.0	-34.7	-60.0	58.1	8.9	-7.6	-4.7	330.3	330.4	0.0	5.6	8.0	218.
31.5	84.0	9168.9	314.0	-35.9	-59.2	56.0	8.8	-7.3	-4.9	330.4	330.6	0.0	7.0	8.3	219.
31.9	85.0	9302.8	308.0	-36.6	-61.1	54.4	8.7	-7.1	-5.1	331.3	331.5	0.0	5.8	8.5	219.
32.5	86.0	9461.7	301.0	-37.9	-64.6	52.0	8.8	-6.9	-5.4	331.8	331.9	0.0	4.1	8.8	219.
32.9	87.0	9600.1	295.0	-39.1	-62.7	49.8	8.8	-6.7	-5.7	331.8	332.0	0 0	6.1	9.0	220.
33.4	88.0	9740.6	289.0	-40.5	99.9	47.4	8.5	-6.2	-5.7	331.9	999.9	99.9	999.9	9.2	220.
33.8	89.0	9859.2	284.0	-41.8	99.9	46.0	8.3	-6.0	-5.8	331.6	999.9	99.9	999.9	9.4	220.
34.3	90.0	10007.5	278.0	-43.0	99.9	45.3	8.3	-5.9	-5.8	331.9	999.9	99.9	999.9	9.7	220.
34.7	91.0	10125.5	273.0	-44.3	99.9	45.7	8.4	-6.0	-5.9	331.8	999.9	99.9	999.9	9.9	220.
35.1	92.0	10274.1	267.0	-45.4	99.9	46.5	8.5	-6.2	-6.9	332.3	999.9	99.9	999.9	10.1	220.
35.6	93.0	10399.8	262.0	-46.7	99.9	46.9	9.0	-6.5	-6.1	332.2	999.9	99.9	999.9	10.3	221.
36.0	94.0	10527.3	257.0	-47.8	99.9	46.1	9.9	-7.1	-6.8	332.3	999.9	99.9	999.9	10.6	221.
36.5	95.0	10682.8	251.0	-49.3	99.9	45.6	10.7	-7.6	-7.5	332.4	999.9	99.9	999.9	10.9	221.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

Table 4. (Continued)

STATION NO. 229
CENTERVILLE, ALABAMA

26 MAY 1977
2300 GMT

157 13. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
37.0	96.0	10841.0	245.0	-50.3	99.9	46.6	10.6	-7.7	-7.3	333.2	999.9	99.9	999.9	11.2	221.
37.5	97.0	10975.2	240.0	-51.8	99.9	48.9	10.5	-7.9	-6.9	332.9	999.9	99.9	999.9	11.5	221.
38.0	98.0	11111.3	235.0	-53.0	99.9	51.1	11.2	-8.7	-7.1	333.1	999.9	99.9	999.9	11.8	221.
38.5	99.0	11249.6	230.0	-54.1	99.9	53.0	11.8	-9.4	-7.1	333.5	999.9	99.9	999.9	12.2	222.
39.0	100.0	11390.4	225.0	-55.0	99.9	55.2	11.2	-9.2	-6.4	334.2	999.9	99.9	999.9	12.5	222.
39.7	101.0	11562.5	219.0	-56.5	99.9	58.8	10.4	-8.9	-5.4	334.5	999.9	99.9	999.9	13.0	223.
40.1	102.0	11679.2	215.0	-57.5	99.9	60.0	9.8	-8.7	-4.4	334.8	999.9	99.9	999.9	13.2	223.
40.8	103.0	11827.6	210.0	-58.1	99.9	60.6	9.2	-8.6	-3.2	335.0	999.9	99.9	999.9	13.5	224.
41.3	104.0	11979.0	205.0	-59.1	99.9	74.5	8.6	-8.3	-2.3	335.7	999.9	99.9	999.9	13.8	224.
41.9	105.0	12102.4	201.0	-59.5	99.9	75.6	7.5	-7.3	-1.9	338.1	999.9	99.9	999.9	14.0	225.
42.4	106.0	12260.0	196.0	-59.8	99.9	69.2	6.5	-6.1	-2.3	340.0	999.9	99.9	999.9	14.2	225.
42.9	107.0	12398.4	192.0	-61.2	99.9	57.6	5.2	-4.4	-2.8	339.9	999.9	99.9	999.9	14.4	225.
43.4	108.0	12519.9	188.0	-61.8	99.9	36.6	5.1	-3.1	-4.1	340.9	999.9	99.9	999.9	14.5	225.
43.9	109.0	12695.5	183.0	-62.5	99.9	15.4	5.7	-1.5	-5.5	342.4	999.9	99.9	999.9	14.7	225.
44.4	110.0	12821.6	179.0	-62.2	99.9	0.7	6.4	-0.1	-6.4	343.4	999.9	99.9	999.9	14.8	225.
45.0	111.0	12995.9	174.0	-63.0	99.9	358.0	7.0	0.2	-7.0	346.5	999.9	99.9	999.9	15.0	224.
45.6	112.0	13175.2	169.0	-63.4	99.9	9.5	7.2	-0.3	-7.2	348.8	999.9	99.9	999.9	15.2	223.
46.0	113.0	13323.0	165.0	-61.8	99.9	2.8	7.1	-0.3	-7.1	353.9	999.9	99.9	999.9	15.3	223.
46.5	114.0	13475.0	161.0	-61.6	99.9	352.3	6.6	0.9	-6.6	356.7	999.9	99.9	999.9	15.5	222.
47.0	115.0	13591.3	158.0	-62.3	99.9	341.8	7.1	2.2	-6.7	357.4	999.9	99.9	999.9	15.6	222.
47.9	116.0	13790.3	153.0	-61.6	99.9	335.7	8.9	3.6	-8.1	361.9	999.9	99.9	999.9	15.8	220.
48.5	117.0	13954.6	149.0	-61.2	99.9	337.3	10.0	3.9	-9.2	365.3	999.9	99.9	999.9	15.9	219.
49.2	118.0	14123.5	145.0	-61.2	99.9	332.7	10.3	4.7	-9.1	368.2	999.9	99.9	999.9	16.1	218.
49.9	119.0	14253.4	142.0	-60.7	99.9	327.4	10.9	5.9	-9.2	371.3	999.9	99.9	999.9	16.3	217.
50.5	120.0	14431.5	139.0	-60.0	99.9	322.4	10.8	6.6	-8.5	375.6	999.9	99.9	999.9	16.4	215.
51.2	121.0	14568.8	135.0	-59.8	99.9	320.3	8.9	5.7	-6.8	378.2	999.9	99.9	999.9	16.5	214.
51.9	122.0	14755.8	131.0	-59.7	99.9	329.8	7.0	3.5	-5.1	381.8	999.9	99.9	999.9	16.6	213.
52.5	123.0	14901.9	128.0	-59.0	99.9	334.8	5.9	2.5	-5.3	385.6	999.9	99.9	999.9	16.8	212.
53.0	124.0	15050.6	125.0	-59.3	99.9	330.0	5.2	2.6	-4.5	387.6	999.9	99.9	999.9	16.9	212.
53.7	125.0	15254.0	121.0	-60.0	99.9	310.6	4.9	3.7	-3.2	390.0	999.9	99.9	999.9	16.9	211.
54.4	126.0	15463.3	117.0	-61.1	99.9	301.7	5.3	4.5	-2.8	391.8	999.9	99.9	999.9	16.9	210.
55.3	127.0	15624.5	114.0	-61.6	99.9	304.0	5.1	4.2	-2.8	393.7	999.9	99.9	999.9	16.9	210.
55.8	128.0	15789.5	111.0	-62.1	99.9	327.0	4.2	2.3	-3.5	395.7	999.9	99.9	999.9	17.0	209.
56.4	129.0	15959.4	108.0	-63.4	99.9	337.4	3.3	1.3	-3.1	396.4	999.9	99.9	999.9	17.1	208.
57.0	130.0	16131.5	105.0	-62.4	99.9	278.2	2.3	2.2	-0.3	399.6	999.9	99.9	999.9	17.1	208.
58.0	131.0	16309.5	102.0	-63.6	9.9	266.4	3.8	3.8	0.2	402.6	999.9	99.9	999.9	16.9	208.
58.6	132.0	16492.7	99.0	-63.6	99.9	290.6	4.3	4.0	-1.5	406.0	999.9	99.9	999.9	16.9	207.
59.4	133.0	16681.6	96.0	-63.6	99.9	310.0	4.6	3.5	-3.0	409.6	999.9	99.9	999.9	16.9	206.
60.0	134.0	16876.1	93.0	-64.5	99.9	328.0	3.7	2.0	-3.2	411.5	999.9	99.9	999.9	17.0	206.
60.9	135.0	17076.4	90.0	-64.7	99.9	320.0	1.4	0.9	-1.0	415.0	999.9	99.9	999.9	17.1	206.
61.8	136.0	17283.0	87.0	-65.3	99.9	237.2	1.2	1.0	0.7	417.9	999.9	99.9	999.9	17.0	205.
62.8	137.0	17497.0	84.0	-64.7	99.9	6.0	1.3	-0.1	-1.3	423.3	999.9	99.9	999.9	17.0	205.
63.5	138.0	17718.7	81.0	-65.3	99.9	13.4	2.6	-0.6	-2.5	426.5	999.9	99.9	999.9	17.1	205.
64.4	139.0	17947.9	78.0	-66.5	99.9	30.0	1.6	-0.8	-1.4	429.7	999.9	99.9	999.9	17.2	205.
65.1	140.0	18185.4	75.0	-66.3	99.9	49.8	1.2	-0.9	-0.8	434.0	999.9	99.9	999.9	17.3	205.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

Table 4. (Continued)

STATION NO. 229
CENTERVILLE, ALABAMA

26 MAY 1977
2300 GMT

157 13. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
65.2	141.0	18433.4	72.0	-65.3	99.9	91.5	0.9	-0.9	0.0	441.1	999.9	99.9	999.9	17.3	205.
67.4	142.0	18694.1	69.0	-62.7	99.9	125.0	1.0	-0.8	0.6	452.2	999.9	99.9	999.9	17.3	206.
68.5	143.0	18958.9	66.0	-61.6	99.9	103.5	0.3	-0.3	0.1	460.3	999.9	99.9	999.9	17.3	206.
69.5	144.0	19257.9	63.0	-60.5	99.9	323.2	2.6	1.5	-2.1	468.8	999.9	99.9	999.9	17.3	206.
70.5	145.0	19561.4	60.0	-61.1	99.9	350.8	4.2	0.7	-4.2	474.2	999.9	99.9	999.9	17.5	205.
71.6	146.0	19879.9	57.0	-61.2	99.9	15.5	2.6	-0.7	-2.5	480.8	999.9	99.9	999.9	17.7	205.
72.9	147.0	20101.6	55.0	-61.4	99.9	354.8	1.9	0.2	-1.9	485.4	999.9	99.9	999.9	17.8	205.
74.0	148.0	20449.6	52.0	-61.2	99.9	1.2	3.2	-0.1	-3.2	493.6	999.9	99.9	999.9	18.0	204.
75.0	149.0	20819.1	49.0	-60.5	99.9	9.3	3.8	-0.6	-3.7	503.8	999.9	99.9	999.9	18.2	204.
75.4	150.0	21213.7	46.0	-59.3	99.9	58.2	2.5	-2.1	-1.3	515.9	999.9	99.9	999.9	18.5	204.
78.0	151.0	21493.0	44.0	-58.0	99.9	64.2	5.1	-4.6	-2.2	525.8	999.9	99.9	999.9	18.6	205.
79.5	152.0	21941.4	41.0	-54.7	99.9	56.6	6.6	-5.5	-3.6	544.6	999.9	99.9	999.9	19.2	206.
81.0	153.0	22429.0	38.0	-53.5	99.9	74.1	4.7	-4.6	-1.3	559.7	999.9	99.9	999.9	19.5	207.
82.6	154.0	22957.9	35.0	-53.6	99.9	73.3	6.9	-6.6	-2.0	572.6	999.9	99.9	999.9	19.9	208.
84.1	155.0	23335.6	33.0	-54.4	99.9	53.6	5.5	-5.2	-3.9	580.3	999.9	99.9	999.9	20.4	209.
85.9	156.0	23944.7	30.0	-55.5	99.9	72.1	5.3	-5.0	-1.6	593.3	999.9	99.9	999.9	21.0	210.
87.9	157.0	24618.3	27.0	-54.3	99.9	100.5	4.0	-3.9	0.7	615.0	999.9	99.9	999.9	21.3	211.
89.8	158.0	25111.6	25.0	-54.4	99.9	105.5	5.6	-5.4	1.5	628.2	999.9	99.9	999.9	21.4	212.
92.2	159.0	25943.2	22.0	-47.7	99.9	233.1	0.7	0.6	0.4	671.7	999.9	99.9	999.9	21.5	214.
95.0	160.0	26915.4	19.0	-45.8	99.9	31.0	1.5	-0.8	-1.3	706.2	999.9	99.9	999.9	21.4	213.
98.2	161.0	28050.4	16.0	-45.5	99.9	63.8	4.2	-3.7	-1.8	742.7	999.9	99.9	999.9	22.1	214.
101.6	162.0	29449.0	13.0	-44.1	99.9	999.9	99.9	99.9	99.9	793.0	999.9	99.9	999.9	999.9	999.

SOUNDING # 1 WAS COMPUTED

Table 4. (Concluded)

Table 5. Explanation of column headings of tabulated sounding data for the AVE VI experiment.

TIME (MIN)	Time after Balloon release.
CNTCT	Contact number.
HEIGHT (GPM)	Height of corresponding pressure surface in geopotential meters.
PRES (MB)	Pressure in millibars.
TEMP (DG C)	Ambient temperature in degrees Celsius. NOTE: An asterisk indicates that time from release and/or temperature were linearly interpolated.
DEW PT (DG C)	Dew point temperature in degrees Celsius.
DIR (DG)	Wind direction measured clockwise from true north and is the direction from which the wind is blowing.
SPEED (M/SEC)	Scalar wind speed in meters per second. NOTE: An asterisk indicates that wind quantities are based on an elevation angle that is between 10° and 6°. A double asterisk indicates that the elevation angle is less than 6°.
U COMP (M/SEC)	The E-W wind component, positive toward the east and negative toward the west.
V COMP (M/SEC)	The N-S wind component, positive toward the north and negative toward the south.
POT T (DG K)	Potential temperature in degrees Kelvin.
E POT T (DG K)	Equivalent potential temperature in degrees Kelvin.
MX RTO (GM/KG)	Mixing ratio in grams per kilogram.
RH (PCT)	Relative humidity in percent.
RANGE (KM)	Distance balloon is from release point along a radius vector.
AZ (DG)	Direction toward balloon measured clockwise from true north.

Table 6. Soundings missing or terminated before completion.

Station	Date/GMT	Reason
Midland, Texas	5/27 : 00Z	Rawinsonde failure; abrupt signal failure, atmospheric interference. Flight terminated after 92 min.
Topeka, Kansas	5/27 : 00Z	Rawinsonde failure; Signal fading. Flight terminated after 62 min.
Marshall SFC, Alabama	5/27 : 00Z	Complete sounding missing
Topeka, Kansas	5/27 : 12Z	Ground equipment failure. Flight terminated after 62 min.
Marshall SFC, Alabama	5/27 : 15Z	Rawinsonde failure. Flight terminated after 55 min.
Midland, Texas	5/27 : 15Z	Rawinsonde signal failure. Flight terminated after 92 min.
Topeka, Kansas	5/27 : 15Z	Ground receiver adjusted during flight, @ 26 min.
Peoria, Illinois	5/27 : 18Z	Rawinsonde switching failure. Flight terminated after 68 min.
Marshall SFC, Alabama	5/28 : 03Z	Ground equipment failure. Flight terminated after 61 min.
Topeka, Kansas	5/28 : 12Z	Rawinsonde failure. Flight terminated after 76 min.

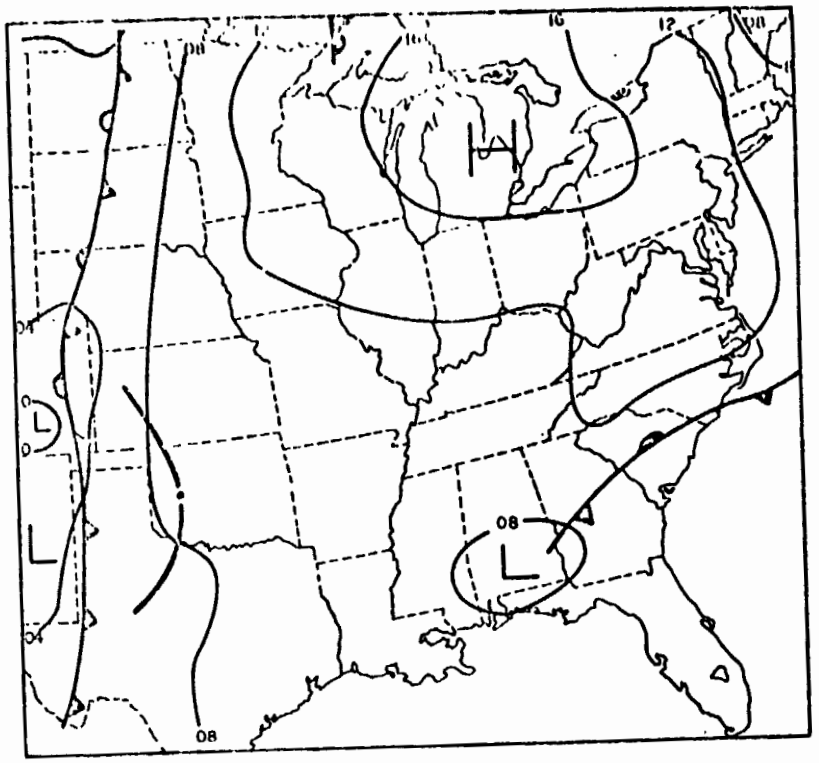
The contact data interpolated for 25-mb intervals are presented following Section V. The column headings are identical to those used for the contact data and are described in Table 5. The soundings are arranged by time and appear in ascending order by station number for each time. The first line of data indicates the surface report which is followed by data from 1000 to 25 mb. In cases where the surface pressure is less than the given 25-mb pressure value, missing data (nines) are indicated for each quantity. This is also done when the sounding terminates before the 25-mb level is reached.

Synoptic Charts

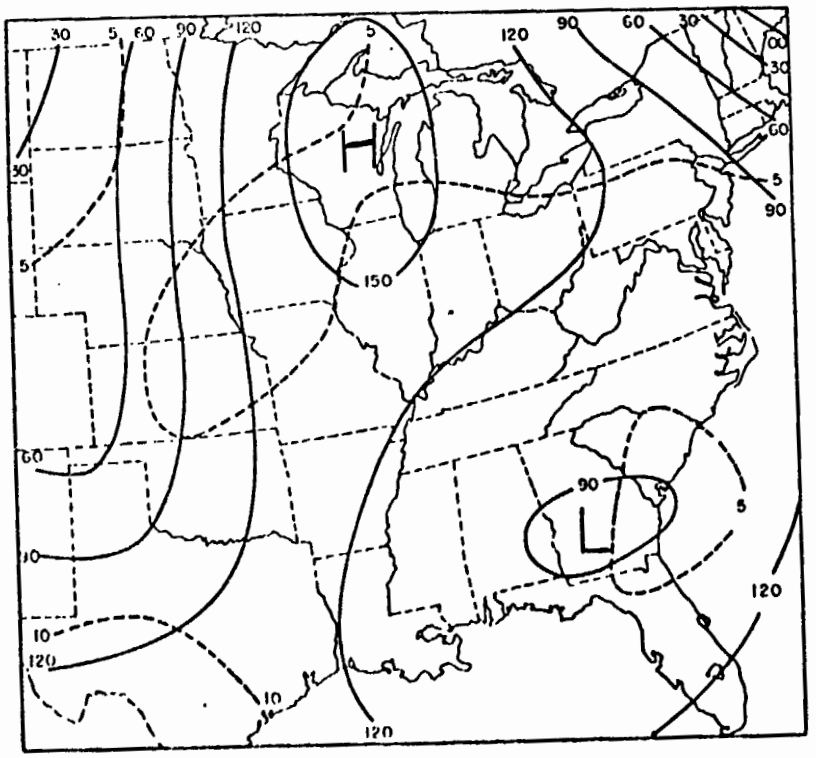
Surface and 700 mb synoptic charts for the beginning and ending of the observational period, May 27 at 0000 GMT and May 28 at 1200 GMT, are presented in Figs. 2 and 3. The maps are simplified and depict only the overall synoptic situation existing at these times.

ACKNOWLEDGMENTS

The tasks of processing the AVE VI data and preparing this report required the efforts of approximately 20 people, who worked diligently behind the scenes to accomplish this important task. The authors are most grateful to all who contributed to its successful completion.

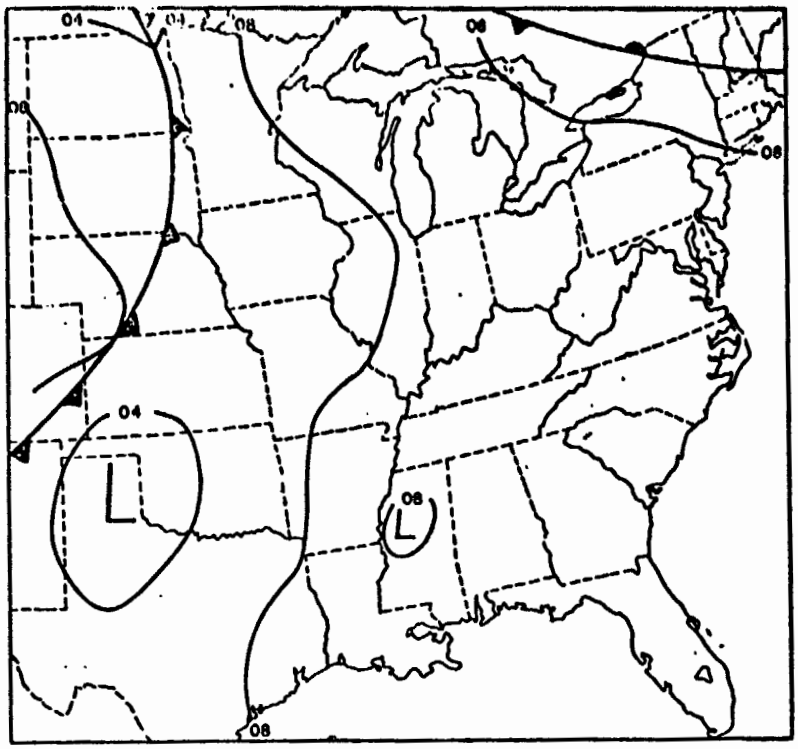


Surface

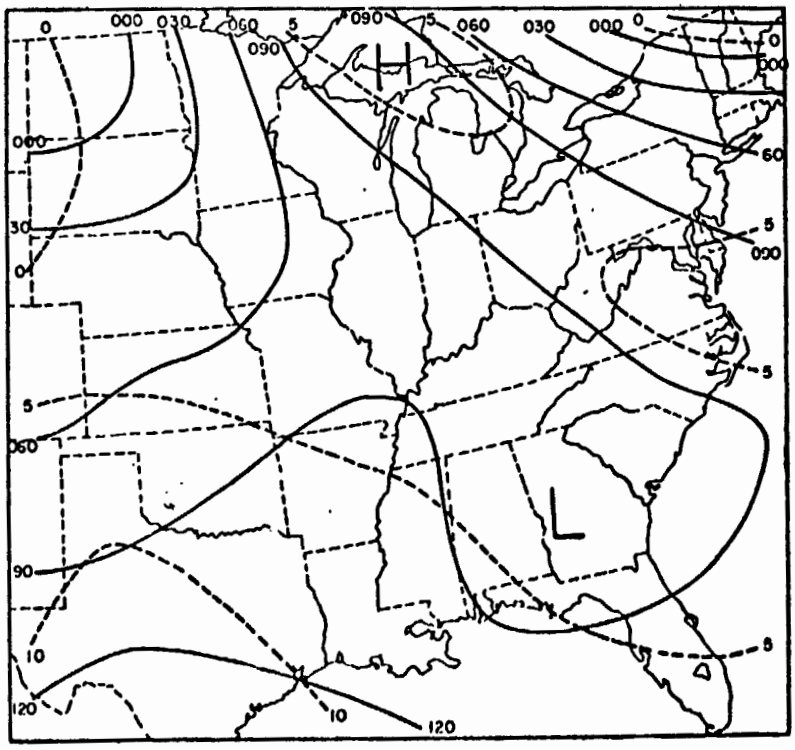


700-mb

Fig. 2. Synoptic charts for 0000 GMT, 27 May 1977.



Surface



700-mb

Fig. 3. Synoptic charts for 1200 GMT, 28 May 1977.

REFERENCES

Fucik, N. F. and R. E. Turner, 1976: Data for NASA's AVE IV experiment: 25 mb sounding data and synoptic charts. NASA Technical Note TN D-8161. National Aeronautics and Space Administration, Washington, D. C., 51 pp.

_____ and _____, 1976: Data for NASA's AVSSE I experiment: 25 mb sounding data and synoptic charts. NASA Technical Note TN D-8155. National Aeronautics and Space Administration, Washington, D. C., 19 pp.

_____ and _____, 1976: Data for NASA's AVSSE II experiment: 25 mb sounding data and synoptic charts. NASA Technical Note TN D-8154. Washington, D. C., 19 pp.

Fuelberg, H. E., 1974: Reduction and error analysis of the AVE II pilot experiment data. NASA Contractor Report CR-120496. Marshall Space Flight Center, Alabama, 140 pp.

_____ and R. E. Turner, 1975: Data for NASA's AVE III experiment: 25 mb sounding data and synoptic charts. NASA TM X-64938, NASA, Marshall Space Flight Center, Alabama.

_____ and _____, 1975: Pressure contact data for NASA's Atmospheric Variability Experiment (AVE II). NASA Technical Note TN D-7914. National Aeronautics and Space Administration, Washington, D. C., 24 pp.

Humbert, M. E. and K. Hill, 1977: Data for NASA's AVE V experiment: 25 mb sounding data and synoptic charts. NASA Technical Memorandum TM X-73370. Marshall Space Flight Center, Alabama, 211 pp.

Overall, J. W. and J. R. Scoggins, 1975: Relationships between motion on isentropic surfaces from 3-h rawinsonde data and radar echoes. NASA Contractor Report CR-2558, National Aeronautics and Space Administration, Washington, D. C., 67 pp.

Scoggins, J. R. and O. E. Smith, 1973a: Data for first NASA Atmospheric Variability Experiment (AVE I). Part I: Data tabulation. NASA Technical Memorandum TM X-2938, NASA, Washington, D. C.

_____ and _____, 1973b: Data for first NASA Atmospheric Variability Experiment (AVE I). Part II: Graphical presentation of data. NASA Technical Memorandum TM X-2948, National Aeronautics and Space Administration, Washington, D. C.

_____, H. E. Fuelberg, R. D. Carlson, R. W. Phelps, and D. G. Bellue, 1973: A compilation of studies from the Atmospheric Variability Experiment (AVE). NASA Contractor Report CR-2304. National Aeronautics and Space Administration, Washington, D. C., 235 pp.

_____ and R. E. Turner, 1975: 25-mb sounding data and synoptic charts for NASA's AVE II pilot experiment. NASA Technical Note TN D-7832. National Aeronautics and Space Administration, Washington, D. C., 530 pp.

Wilson, G. S. and J. R. Scoggins, 1975: Changes in the structure of the atmosphere in areas of convective storms as revealed in the AVE II experiment.

Sounding Data

26 May 1977

2300 GMT

STATION NO. 229
CENTERVILLE, ALABAMA

26 MAY 1977
2300 GMT

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

187 13. 1

TIME MIN	CNTCY	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	6.8	140.0	992.0	25.0	18.4	330.0	4.2	2.1	-3.6	298.8	334.8	13.6	67.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	9.4	287.1	975.0	24.4	17.2	125.7	4.7	-3.8	2.7	299.7	333.7	12.8	69.3	0.5	165.
1.1	10.8	419.8	950.0	23.0	16.7	323.3	3.6	2.2	-2.9	300.6	334.5	12.7	67.6	0.4	175.
1.9	12.9	751.9	925.0	20.6	16.2	342.9	6.0	1.7	-5.7	300.4	334.1	12.6	75.7	0.7	172.
2.6	15.1	999.8	900.0	18.7	15.9	338.5	5.2	1.9	-4.9	300.8	334.8	12.7	83.5	0.9	169.
3.4	17.9	1230.6	875.0	16.5	15.2	349.6	2.2	0.4	-2.2	301.0	334.6	12.5	91.2	1.1	167.
4.1	19.8	1477.6	850.0	14.8	13.7	34.1	1.0	-0.6	-0.8	301.6	333.1	11.7	92.1	1.2	168.
4.8	22.1	1710.0	825.0	12.6	11.8	70.6	1.3	-1.2	-0.4	301.9	330.6	10.6	94.6	1.2	170.
5.9	24.5	1999.4	800.0	10.8	9.2	79.5	1.8	-1.8	-0.3	302.7	327.9	9.2	86.9	1.2	174.
6.9	25.9	2257.0	775.0	9.3	6.4	75.0	2.2	-2.2	-0.6	303.9	325.6	7.8	81.9	1.2	179.
7.6	29.4	2524.6	750.0	7.6	3.8	70.2	2.5	-2.3	-0.8	304.8	323.7	6.7	78.7	1.2	184.
8.4	32.1	2803.7	725.0	6.3	0.9	65.9	2.6	-2.4	-1.1	306.4	322.5	5.7	68.3	1.3	190.
9.5	34.8	3091.0	700.0	4.7	-2.7	52.3	2.7	-2.2	-1.7	307.7	320.8	4.5	58.3	1.4	195.
10.5	37.2	3397.1	675.0	2.8	-8.0	40.6	3.2	-2.1	-2.4	309.6	318.9	3.1	42.6	1.6	198.
11.5	40.1	3692.5	650.0	1.6	-4.8	32.6	3.8	-2.0	-3.2	310.8	323.1	4.1	62.2	1.8	200.
12.5	42.7	4007.5	625.0	-0.6	-9.4	29.3	4.1	-2.0	-3.6	311.8	320.9	3.0	51.2	2.0	202.
13.4	45.6	4333.4	600.0	-1.9	-25.6	21.1	4.1	-1.5	-3.8	313.9	317.4	1.1	15.8	2.3	202.
14.4	48.6	4670.3	575.0	-4.2	-16.2	8.3	3.5	-0.5	-3.5	315.1	322.8	2.5	51.9	2.5	202.
15.7	51.4	5019.7	550.0	-6.3	-19.1	335.4	2.8	1.2	-2.5	316.6	323.7	2.3	52.8	2.7	200.
17.5	54.5	5382.8	525.0	-8.7	-22.3	353.8	1.5	0.2	-1.5	317.9	321.9	1.2	22.3	2.9	196.
19.5	57.4	5758.6	500.0	-10.8	-37.1	57.8	2.9	-2.4	-1.5	319.9	321.0	0.3	9.3	3.0	190.
21.1	60.7	6151.0	475.0	-13.3	-33.6	48.5	4.9	-3.7	-3.3	321.5	323.2	0.5	16.1	3.3	202.
22.5	64.1	6560.5	450.0	-15.7	-30.5	43.8	7.2	-5.0	-5.2	323.5	325.8	0.7	26.7	3.5	205.
23.6	67.3	6988.2	425.0	-18.5	-37.7	44.9	8.1	-5.7	-5.9	324.9	326.2	0.3	17.0	4.3	207.
25.9	70.9	7437.7	400.0	-22.4	-52.1	45.9	8.1	-5.8	-5.7	325.6	325.9	0.1	5.0	4.9	209.
26.6	74.5	7909.1	375.0	-25.4	-64.6	48.3	8.4	-6.3	-5.6	328.0	328.0	0.0	1.3	5.7	212.
29.4	79.3	8405.1	350.0	-30.0	-52.7	50.7	9.4	-7.3	-6.0	328.4	328.7	0.1	8.8	6.6	214.
30.6	82.2	8929.7	325.0	-34.0	-61.1	55.6	9.3	-7.7	-5.3	329.9	330.0	0.0	4.5	7.8	217.
32.6	86.2	9484.8	300.0	-38.0	-64.3	51.4	8.7	-6.8	-5.4	331.8	331.9	0.0	4.5	8.8	220.
34.5	90.6	10076.7	275.0	-43.8	99.9	46.2	8.5	-6.1	-5.9	331.9	999.9	99.9	999.9	9.8	220.
35.6	95.2	10709.1	250.0	-49.4	99.9	47.1	10.2	-7.5	-7.0	332.6	999.9	99.9	999.9	10.9	221.
39.0	100.0	11390.4	225.0	-55.0	99.9	56.4	10.8	-9.0	-6.0	334.2	999.9	99.9	999.9	12.3	222.
42.0	105.2	12133.0	200.0	-59.6	99.9	62.9	7.3	-6.5	-3.3	338.5	999.9	99.9	999.9	14.1	225.
44.0	110.9	12941.1	175.0	-63.1	99.9	7.8	6.5	-0.9	-6.4	345.9	999.9	99.9	999.9	15.8	224.
49.4	116.9	13813.5	150.0	-61.3	99.9	336.9	9.1	3.6	-8.4	364.5	999.9	99.9	999.9	15.5	219.
57.0	124.0	15050.6	125.0	-59.3	99.9	319.9	6.4	4.2	-4.9	387.6	999.9	99.9	999.9	16.9	212.
58.4	131.7	16431.6	100.0	-63.6	99.9	297.3	3.3	2.9	-1.5	404.9	999.9	99.9	999.9	16.9	207.
65.1	140.0	18195.4	75.0	-66.3	99.9	77.7	1.7	-1.7	-0.4	434.8	999.9	99.9	999.9	17.3	205.
76.7	149.7	20695.9	50.0	-60.8	99.9	24.5	3.8	-1.8	-3.4	500.4	999.9	99.9	999.9	18.1	204.
89.8	159.8	25111.6	25.0	-84.4	99.9	999.9	999.9	99.9	99.9	628.2	999.9	99.9	999.9	21.4	212.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 235
JACKSON, MISSISSIPPI

26 MAY 1977
2300 GMT

155 21. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	6.3	110.0	997.0	26.7	18.6	30.0	4.2	-2.1	-3.6	300.1	336.4	13.6	61.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.4	4.5	207.2	975.0	25.3	17.7	133.5	3.0	-2.2	2.1	300.6	335.9	13.2	63.1	0.4	199.
1.5	13.9	835.5	950.3	23.5	16.9	19.0	2.9	-0.9	-2.7	301.0	335.5	12.9	66.5	0.4	201.
2.5	17.2	759.1	925.0	21.5	15.9	347.3	4.0	0.9	-3.9	301.3	334.6	12.4	70.5	0.6	191.
3.4	15.5	885.7	900.0	19.7	14.2	351.8	4.1	0.6	-4.1	301.8	332.8	11.5	71.2	0.9	185.
4.5	18.1	1217.9	875.0	17.7	12.7	4.2	4.4	-0.3	-4.4	302.2	331.0	10.6	72.2	1.1	183.
5.2	23.4	1498.8	850.0	15.9	10.9	0.9	3.6	-0.0	-3.6	302.8	329.3	9.7	72.2	1.4	184.
6.2	23.1	1738.9	825.0	13.9	10.3	6.0	4.0	-0.4	-4.0	303.3	329.7	9.6	75.1	1.5	183.
7.1	25.4	1999.3	803.0	11.9	9.5	15.9	5.5	-1.5	-5.3	303.9	329.6	9.4	80.0	1.8	184.
8.1	28.2	2269.8	775.0	10.2	8.0	22.0	6.2	-2.3	-5.8	304.8	329.1	8.8	80.2	2.1	187.
9.0	31.0	2538.3	750.0	8.4	6.1	23.8	6.7	-2.7	-6.1	305.7	327.8	7.9	80.2	2.5	189.
10.1	33.9	2816.5	725.0	6.9	4.2	25.5	7.1	-3.1	-6.4	307.0	327.3	7.2	83.0	2.9	192.
11.2	35.3	3105.0	700.0	6.0	1.8	25.0	6.2	-2.6	-5.6	309.1	326.7	6.1	73.3	3.3	193.
12.7	33.3	3402.6	675.0	4.3	1.0	15.6	7.0	-1.9	-6.7	310.4	328.1	6.1	79.2	3.7	194.
13.4	41.9	3720.7	650.0	2.3	0.4	10.0	7.1	-1.2	-7.0	311.6	329.3	6.1	87.3	4.2	194.
14.5	44.9	4035.6	625.0	0.5	-3.7	12.9	7.2	-1.6	-7.0	313.0	326.9	4.7	73.3	4.7	194.
15.9	44.0	4353.0	600.0	-0.6	-10.3	17.5	6.5	-2.0	-6.2	315.4	324.1	2.9	47.8	5.2	194.
17.0	50.9	4682.8	575.0	-1.4	-15.2	16.7	5.3	-1.5	-5.1	318.3	324.3	1.9	31.7	5.6	194.
18.3	54.0	5044.0	550.0	-2.8	-22.3	6.0	4.5	-0.5	-4.4	320.7	324.6	1.2	20.5	6.0	194.
19.5	57.0	5412.5	525.0	-5.9	-19.9	0.9	5.2	-0.1	-5.2	321.4	326.7	1.6	34.8	6.3	193.
21.0	60.1	5792.1	500.0	-9.3	-19.9	2.5	6.0	-0.3	-6.0	321.9	327.4	1.7	45.2	6.6	192.
22.5	61.6	6187.1	475.0	-11.8	-26.1	1.1	8.9	-0.2	-8.9	323.3	326.6	1.0	29.6	7.6	191.
24.2	64.9	6598.8	450.0	-14.4	-31.4	1.4	8.6	-0.2	-8.6	325.1	327.3	0.6	22.0	8.5	190.
24.1	70.4	7030.4	425.0	-17.5	-35.1	2.9	9.5	-0.5	-9.5	326.5	328.1	0.4	19.7	9.5	189.
27.7	74.0	7480.6	400.0	-20.9	-39.9	358.6	9.4	0.2	-9.4	329.0	329.1	0.3	16.1	10.5	189.
29.2	77.9	7954.3	375.0	-24.9	-39.5	0.5	8.3	-0.1	-8.3	328.7	329.9	0.2	24.6	11.3	188.
31.0	81.7	8453.0	350.0	-28.9	-43.8	353.8	8.2	0.9	-8.1	329.8	330.6	0.2	22.1	12.1	187.
33.1	85.7	8977.2	325.0	-33.2	-49.6	352.9	8.4	1.0	-8.3	330.8	331.3	0.1	17.5	13.1	186.
35.4	90.0	9534.1	300.0	-38.0	-53.8	345.8	9.0	2.4	-8.6	331.9	332.1	0.1	16.8	14.2	185.
37.5	94.5	10127.5	275.0	-42.7	99.9	347.2	12.3	2.7	-12.0	333.3	999.9	99.9	999.9	15.6	183.
40.0	99.2	10764.2	250.0	-47.3	99.9	344.7	15.8	3.8	-16.3	335.7	999.9	99.9	999.9	17.6	181.
42.5	104.0	11454.9	225.0	-52.0	99.9	338.9	22.6	5.4	-21.0	338.8	999.9	99.9	999.9	20.4	179.
45.0	109.4	12206.2	200.0	-57.9	99.9	331.0	25.3	12.5	-22.5	341.1	999.9	99.9	999.9	23.9	175.
48.0	115.2	13033.6	175.0	-65.0	99.9	326.3	24.6	13.6	-20.4	342.7	999.9	99.9	999.9	28.1	171.
51.3	121.5	13975.6	150.0	-62.9	99.9	321.4	13.4	8.3	-10.5	361.9	999.9	99.9	999.9	31.8	168.
55.5	124.4	15053.8	125.0	-61.5	99.9	310.0	9.1	6.2	-6.2	383.8	999.9	99.9	999.9	33.4	165.
60.2	135.9	16477.9	100.0	-63.7	99.9	285.9	4.4	4.2	-1.1	404.7	999.9	99.9	999.9	34.6	164.
65.9	149.0	18227.4	75.0	-66.0	99.9	19.7	2.6	-0.9	-2.5	434.5	999.9	99.9	999.9	35.1	163.
74.8	151.0	20794.7	50.0	-58.3	99.9	75.6	5.8	-4.8	-1.2	506.1	999.9	99.9	999.9	35.2	162.
86.1	159.7	25179.5	25.0	-50.0	99.9	999.9	99.9	99.9	99.9	641.3	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 247
LONGVIEW, TEXAS

28 MAY 1977
2304 GMT

156 11. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.9	124.0	995.7	29.4	14.9	60.0	3.0	-3.1	-1.9	302.9	336.1	12.3	47.0	0.0	0.
99.0	99.9	99.9	1000.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.7	9.9	310.6	975.3	28.7	15.0	158.7	1.4	-0.5	1.3	302.1	333.9	11.9	51.5	0.2	241.
1.7	11.6	539.7	950.0	24.7	15.4	58.2	4.4	-3.7	-2.3	302.2	333.8	11.7	56.4	0.5	240.
2.5	14.1	777.1	925.0	22.6	14.4	55.8	4.9	-4.1	-2.8	302.4	332.8	11.2	56.7	0.7	236.
3.5	14.9	1011.2	900.3	20.5	13.9	58.0	4.6	-3.9	-2.4	302.7	333.0	11.2	65.7	1.0	239.
4.5	19.0	1254.0	875.0	18.0	12.5	56.2	7.7	-6.3	-4.5	302.5	331.0	10.5	70.1	1.2	239.
5.5	21.3	1503.1	850.0	17.0	7.3	24.0	1.7	-0.7	-1.6	304.0	325.9	7.7	53.4	1.3	237.
6.6	23.9	1755.1	825.0	15.3	4.3	12.9	2.3	-0.5	-2.2	304.9	322.6	6.3	47.8	1.4	234.
7.5	24.9	2014.4	800.0	13.5	3.2	24.4	2.7	-1.2	-2.4	305.5	322.6	6.0	46.7	1.5	231.
8.6	29.0	2282.7	775.0	11.9	2.0	28.0	3.4	-1.7	-3.0	306.0	322.3	5.7	52.4	1.7	229.
9.7	31.0	2554.2	750.0	9.4	0.9	12.6	3.3	-0.7	-3.2	306.8	322.4	5.4	59.0	1.9	225.
10.8	34.7	2837.1	725.0	8.0	-0.5	355.9	2.9	0.2	-2.8	308.2	322.6	5.0	62.3	2.1	222.
11.9	37.3	3124.5	700.0	7.2	-4.2	339.8	3.8	1.3	-3.6	310.5	322.6	4.0	42.5	2.2	218.
13.0	40.2	3424.9	675.0	5.4	-12.6	341.5	6.5	2.1	-6.2	312.1	318.8	2.2	25.4	2.4	211.
14.0	42.9	3733.2	650.0	5.6	-17.0	344.7	9.4	2.2	-9.1	315.1	320.1	1.6	18.0	2.7	204.
15.2	46.0	4052.1	625.0	3.4	-19.4	336.5	9.1	3.6	-8.3	316.3	320.9	1.4	18.3	3.2	196.
16.4	49.1	4381.4	600.0	0.7	-20.0	325.0	9.7	5.6	-7.9	316.9	321.1	1.3	19.4	3.8	189.
17.7	52.0	4721.4	575.0	-2.0	-21.1	319.2	10.5	6.8	-7.9	317.7	321.7	1.2	21.4	4.3	181.
19.0	55.2	5073.2	550.0	-4.9	-15.6	324.7	9.9	5.7	-8.0	319.3	325.1	2.2	45.0	5.0	175.
20.4	58.4	5438.5	525.0	-6.2	-15.7	328.7	7.7	3.0	-6.6	321.0	327.8	2.1	46.7	5.6	172.
21.7	61.8	5819.2	500.0	-9.3	-19.1	325.6	6.7	3.8	-5.5	321.9	327.2	1.7	44.4	6.1	169.
23.1	65.2	6213.1	475.0	-11.8	-21.6	319.9	6.9	4.5	-5.2	323.4	328.1	1.4	42.7	6.6	167.
24.6	68.6	6624.4	450.0	-15.4	-22.9	303.8	8.2	6.9	-4.5	323.9	328.4	1.3	52.4	7.1	166.
26.2	72.1	7054.2	425.0	-17.3	-24.5	297.9	9.6	8.5	-4.5	325.9	329.8	0.9	36.2	7.7	165.
27.8	75.8	7505.7	400.0	-20.9	-31.8	296.1	9.6	8.6	-4.2	327.9	330.2	0.7	26.5	8.4	165.
29.5	80.8	7979.4	375.0	-24.5	-33.1	292.0	10.0	9.3	-3.8	329.2	331.4	0.6	44.3	9.3	161.
31.4	84.9	8478.3	350.0	-27.8	-40.4	292.8	9.3	9.5	-3.6	331.1	332.5	0.3	28.5	10.2	148.
33.2	89.0	9005.9	325.0	-31.9	-41.7	293.4	9.4	9.2	-3.8	332.9	333.7	0.2	29.6	11.0	144.
35.2	93.4	9565.9	300.0	-34.9	-48.5	295.1	11.2	10.2	-4.4	333.4	333.9	0.2	28.7	12.2	141.
37.2	97.0	10161.7	275.0	-41.1	99.9	290.0	12.7	11.9	-4.3	335.7	999.9	99.9	999.9	13.4	139.
39.6	101.5	10801.2	250.0	-46.6	99.9	289.3	15.2	14.3	-5.3	336.8	999.9	99.9	999.9	15.2	135.
42.2	107.0	11490.4	225.0	-52.6	99.9	281.6	18.1	17.7	-3.7	338.0	999.9	99.9	999.9	17.5	131.
44.8	112.3	12231.5	200.3	-59.3	99.9	276.0	20.0	20.4	-2.2	340.4	999.9	99.9	999.9	20.1	128.
47.9	118.9	13068.4	175.0	-64.6	99.9	274.2	22.7	23.5	-1.7	343.3	999.9	99.9	999.9	23.8	121.
51.5	124.5	13998.8	150.9	-66.5	99.9	281.2	19.8	19.8	-5.7	355.6	999.9	99.9	999.9	28.2	117.
55.8	130.8	15111.6	125.0	-64.9	99.9	289.4	9.0	7.5	-2.6	377.8	999.9	99.9	999.9	30.9	117.
61.1	137.9	16481.7	100.0	-64.1	99.9	249.5	5.3	5.0	1.9	403.9	999.9	99.9	999.9	31.9	116.
67.6	144.3	18232.8	75.0	-65.7	99.9	22.9	4.3	-1.7	-4.0	435.3	999.9	99.9	999.9	33.7	116.
78.7	151.3	20752.8	50.3	-57.4	99.9	71.2	4.5	-4.3	-1.5	508.5	999.9	99.9	999.9	32.6	116.
90.6	159.9	25204.3	25.0	-49.6	99.9	999.9	999.9	99.9	99.9	642.8	999.9	99.9	999.9	29.5	126.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 255
VICTORIA, TEXAS

24 MAY 1977
2300 GMT

163 12. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	5.2	77.0	1006.0	29.8	19.2	140.0	5.2	-3.3	4.0	302.1	339.9	14.1	54.0	0.0	0.
0.2	5.7	85.5	1005.0	29.6	19.3	242.6	4.8	4.3	2.2	301.9	339.9	14.3	57.1	0.3	340.
1.2	9.0	319.0	975.0	25.8	17.8	203.7	3.8	1.5	3.5	301.2	336.7	13.3	61.3	0.4	333.
2.1	10.4	539.7	950.0	23.9	17.9	190.0	4.4	-2.4	4.2	301.3	338.1	13.7	68.8	0.7	331.
3.1	12.7	773.8	925.0	21.0	16.8	140.6	4.5	-2.9	3.5	301.7	336.9	13.1	72.6	1.0	331.
4.1	15.2	1010.5	900.1	20.2	11.5	126.6	4.8	-3.2	3.4	302.3	328.4	9.6	57.4	1.2	327.
4.9	17.5	1253.2	875.0	18.4	8.9	121.3	3.2	-2.4	2.0	302.9	325.6	8.2	53.7	1.4	323.
5.8	20.1	1501.2	850.0	16.0	5.4	137.0	3.7	-2.5	2.7	303.8	322.5	6.7	47.0	1.6	320.
6.9	22.6	1755.8	825.0	16.7	-0.3	163.2	3.4	-0.6	3.3	305.2	319.4	4.6	31.5	1.8	323.
7.4	23.1	2016.9	800.0	15.0	-3.5	158.1	3.2	-1.2	3.0	307.1	318.0	3.7	27.6	1.9	325.
8.9	27.4	2284.2	775.0	14.5	-7.0	118.4	2.7	-2.3	1.3	309.4	318.2	2.9	22.0	2.1	325.
9.7	30.3	2561.9	750.0	14.5	-12.1	242.8	1.0	0.9	0.5	312.4	318.6	2.0	14.6	2.2	323.
10.7	33.1	2847.1	725.0	12.7	-11.7	296.9	2.5	2.2	-1.1	313.4	320.1	2.1	16.9	2.1	324.
11.7	35.9	3140.1	700.0	10.7	-14.2	296.3	3.5	3.2	-1.6	314.0	319.7	1.9	16.2	2.0	326.
12.9	38.7	3441.7	675.0	8.1	-16.4	294.9	4.5	4.1	-1.9	314.7	319.7	1.6	15.8	1.7	331.
14.0	41.4	3751.1	650.0	5.5	-6.7	301.8	5.3	4.5	-2.9	315.2	326.0	3.6	41.0	1.5	339.
15.1	44.5	4070.5	625.0	2.9	-9.1	312.6	6.2	4.5	-4.2	315.8	325.2	3.1	40.7	1.2	349.
16.5	47.6	4399.5	600.0	0.7	-12.6	332.3	6.5	2.9	-5.8	316.9	324.6	2.5	38.8	0.7	7.
17.7	50.5	4740.1	575.0	-1.3	-10.8	343.6	5.3	1.0	-5.2	317.3	327.0	2.9	50.3	0.6	35.
19.0	53.7	5092.4	550.0	-4.0	-12.7	321.6	6.9	4.3	-5.4	319.3	327.6	2.6	50.7	0.3	67.
20.2	56.9	5459.6	525.0	-6.2	-15.6	311.9	10.4	7.7	-6.9	321.0	328.0	2.2	47.1	1.1	123.
21.5	60.3	5838.3	500.0	-8.9	-19.5	304.4	9.0	7.4	-5.1	322.2	327.5	1.6	41.7	1.8	125.
22.9	63.9	6239.9	475.0	-10.2	-27.8	294.0	8.5	7.8	-3.5	325.1	328.1	0.9	22.2	2.5	124.
24.4	67.3	6663.3	450.0	-12.6	-32.0	294.9	9.8	9.4	-2.5	327.4	329.5	0.6	17.8	3.3	120.
25.7	70.9	7093.1	425.0	-15.6	-35.9	287.0	10.0	9.7	-2.1	328.9	330.4	0.4	15.7	4.1	117.
27.5	74.9	7537.0	400.0	-19.1	-39.9	278.2	9.4	9.4	-0.7	329.9	331.1	0.3	15.7	5.1	113.
29.1	78.8	8013.5	375.0	-22.9	-41.6	270.7	10.6	10.6	-0.1	331.3	332.3	0.3	16.6	6.6	110.
30.8	82.8	8516.7	350.0	-27.2	-44.3	271.3	11.0	11.0	-0.2	332.2	332.9	0.2	15.9	7.8	107.
32.7	87.2	9046.2	325.0	-31.4	-44.6	270.8	12.4	12.4	-0.2	333.4	334.0	0.1	16.3	8.3	104.
34.4	91.8	9605.4	300.0	-36.1	-51.5	273.4	15.3	15.3	-0.9	334.5	334.9	0.1	17.7	9.9	102.
36.5	96.4	10213.2	275.0	-41.3	99.9	272.1	19.0	19.0	-0.7	335.4	999.9	99.9	999.9	11.9	101.
39.7	101.4	10867.4	250.0	-46.4	99.9	269.0	19.6	19.6	0.4	337.1	999.9	99.9	999.9	14.4	99.
41.8	107.2	11575.3	225.0	-51.3	99.9	266.8	19.9	19.9	1.1	339.9	999.9	99.9	999.9	17.1	97.
43.5	112.9	12330.4	200.0	-57.3	99.9	267.9	20.9	20.8	0.8	342.0	999.9	99.9	999.9	20.1	96.
44.3	119.0	13121.2	175.0	-64.5	99.9	268.6	19.5	19.5	0.5	343.5	999.9	99.9	999.9	23.3	95.
46.7	125.8	14059.5	150.0	-67.7	99.9	271.5	20.5	20.5	-0.6	354.2	999.9	99.9	999.9	27.1	94.
47.8	133.8	15155.3	125.0	-67.6	99.9	279.2	17.4	17.2	-2.8	372.8	999.9	99.9	999.9	31.8	94.
47.8	140.3	14508.5	100.0	-66.8	99.9	291.2	8.7	8.2	2.8	402.5	999.9	99.9	999.9	34.5	94.
63.0	147.7	19251.6	75.0	-65.8	99.9	352.4	4.5	0.6	-4.4	435.0		99.9	999.9	36.8	94.
78.7	155.3	20755.6	50.0	-59.9	99.9	69.2	5.4	-5.0	-1.9	502.		99.9	999.9	34.7	95.
91.9	149.0	25170.6	25.0	-50.4	99.9	999.9	999.9	99.9	99.9	639.		99.9	999.9	31.4	97.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 260
STEPHENVILLE, TEXAS

26 MAY 1977
2360 GMT

159 11. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CURCT	WEIGHT GRM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MR RTU GM/KG	RH PCT	RANGE KM	AZ DG
0.0	0.0	1000.0	969.3	28.1	14.7	140.0	5.2	-3.1	4.1	304.5	334.6	11.0	44.0	0.0	0.
0.5	0.0	0.0	1003.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
1.0	0.0	0.0	999.3	999.9	99.9	99.9	99.0	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
1.5	10.5	999.4	990.0	28.3	14.6	122.5	2.7	1.4	-1.9	304.5	334.8	11.1	47.1	0.6	340.
2.0	12.9	959.3	985.0	28.3	13.5	219.4	4.0	3.4	1.6	304.7	333.7	10.8	49.1	0.7	339.
2.5	15.3	997.1	980.0	28.4	12.7	154.8	10.7	4.0	-9.5	304.5	332.9	10.3	50.2	1.2	335.
3.0	17.6	1241.4	975.3	28.0	10.8	155.7	9.0	-4.1	8.0	304.4	330.5	9.4	55.5	1.9	338.
3.5	20.1	1450.5	969.0	17.9	9.0	154.5	10.4	-4.1	9.6	304.9	328.6	8.8	58.2	2.3	337.
4.0	22.5	1745.5	965.0	15.0	6.5	141.4	10.3	-6.3	8.1	305.4	326.3	7.5	54.2	2.9	337.
4.5	25.1	2006.2	960.0	14.4	3.2	173.2	9.5	-1.1	9.4	306.5	323.8	6.1	47.2	3.4	339.
5.0	27.5	2274.4	955.0	14.5	-0.3	196.2	9.3	0.7	9.3	309.4	317.4	2.7	20.6	3.5	341.
5.5	30.2	2550.7	950.3	11.4	-10.6	205.5	9.7	3.8	7.9	311.1	318.1	2.3	17.9	4.3	344.
6.0	33.0	2834.6	945.3	11.1	-5.9	229.4	7.7	5.9	5.0	311.7	321.9	3.4	26.6	4.5	349.
6.5	35.4	3124.8	940.0	9.7	-7.4	237.7	6.0	4.7	4.1	313.2	322.8	3.1	25.3	4.7	353.
7.0	38.4	3422.6	935.3	7.3	-3.2	235.9	7.5	6.2	4.2	313.3	327.4	4.4	47.9	4.9	359.
7.5	41.1	3727.3	930.0	5.4	-3.5	230.5	7.9	6.1	4.8	315.1	328.5	4.5	51.6	5.2	4.
8.0	44.1	4039.2	925.0	3.5	-5.3	242.0	10.3	9.1	4.8	316.4	329.0	4.1	52.6	5.7	10.
8.5	47.3	4359.1	920.3	0.3	-4.0	244.4	12.2	11.4	4.4	315.4	330.7	4.8	72.6	6.2	16.
9.0	50.3	4727.3	915.0	-2.3	-7.7	250.5	12.2	11.5	4.1	317.3	328.6	3.7	66.3	6.8	22.
9.5	53.4	5076.7	910.3	-5.2	-9.7	249.3	13.9	12.9	5.2	317.8	328.1	3.1	71.4	7.5	28.
10.0	56.4	5447.1	905.0	-7.1	-11.7	250.5	14.5	13.6	4.8	318.8	326.2	2.9	76.1	8.5	33.
10.5	59.8	5821.8	900.3	-9.9	-16.0	249.1	12.5	11.7	4.5	321.0	328.1	2.2	66.6	9.4	38.
11.0	63.4	6215.3	895.0	-12.7	-18.8	244.2	11.9	10.9	4.8	322.3	328.2	1.8	59.8	10.4	41.
11.5	66.7	6627.1	890.0	-15.3	-20.6	248.4	9.6	9.0	3.5	324.0	329.3	1.6	61.7	11.3	43.
12.0	70.4	7056.8	885.0	-18.4	-24.2	245.1	10.8	9.8	4.5	325.5	329.7	1.3	60.1	12.0	45.
12.5	74.2	7507.0	880.0	-20.8	-27.3	245.2	13.6	12.5	5.0	328.0	331.5	1.0	55.8	13.1	47.
13.0	78.2	7980.8	875.0	-24.9	-31.2	247.1	15.8	14.5	6.2	329.7	331.3	0.7	55.2	14.6	49.
13.5	82.2	8478.9	870.0	-28.4	-34.9	245.9	16.0	14.7	6.9	330.5	332.4	0.6	53.1	16.2	51.
14.0	86.5	9003.6	865.0	-32.4	-41.2	247.1	12.2	11.2	4.7	332.0	333.1	0.3	46.9	17.6	52.
14.5	90.9	9556.2	860.0	-37.1	-45.8	248.2	14.7	13.2	5.3	333.0	333.8	0.2	39.4	19.1	53.
15.0	95.6	10139.3	855.0	-42.2	99.9	251.8	16.1	15.3	5.0	334.2	999.9	99.9	999.9	21.0	55.
15.5	100.5	10754.3	850.0	-47.8	99.9	253.1	19.5	18.6	5.7	335.1	999.9	99.9	999.9	23.4	56.
16.0	105.8	11401.8	845.0	-54.0	99.9	255.9	22.6	21.9	5.5	335.7	999.9	99.9	999.9	26.5	59.
16.5	111.5	12080.8	840.0	-59.5	99.9	262.8	27.9	25.1	9.0	340.2	999.9	99.9	999.9	31.0	61.
17.0	117.5	12792.0	835.0	-62.4	99.9	261.7	23.3	21.0	9.4	346.7	999.9	99.9	999.9	35.4	63.
17.5	124.5	13601.0	830.0	-66.2	99.9	262.7	17.2	17.1	2.2	359.0	999.9	99.9	999.9	39.0	65.
18.0	131.3	15109.1	825.0	-65.5	99.9	257.5	19.3	14.0	3.1	375.	999.9	99.9	999.9	42.6	66.
18.5	139.0	16477.8	820.0	-62.6	99.9	272.3	7.3	5.8	4.5	407.3	999.9	99.9	999.9	45.8	67.
19.0	146.7	18238.9	815.0	-64.3	99.9	353.6	7.8	0.6	-3.4	439.2	999.9	99.9	999.9	46.9	66.
19.5	154.1	20757.0	810.3	-58.9	99.9	69.7	5.7	-5.3	-2.0	504.7	999.9	99.9	999.9	45.3	66.
20.0	162.7	24176.9	805.3	-51.5	99.9	999.9	999.9	99.9	99.9	637.8	999.9	99.9	999.9	40.2	66.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 5 DEG

STATION NO. 261
DEL RIO, TEXAS

26 MAY 1977
2300 GMT

153 24. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	8.6	314.0	970.5	27.6	20.7	120.0	4.2	-3.6	2.1	303.3	346.3	16.1	66.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.7	10.7	503.9	950.0	27.2	20.1	206.7	3.2	1.5	2.9	304.8	347.5	15.8	68.1	0.5	309.
1.6	12.4	739.8	925.0	25.1	19.5	134.3	7.8	-5.4	5.7	305.0	347.1	15.6	70.9	0.9	313.
2.7	14.5	950.7	900.0	23.3	18.6	133.0	9.6	-7.0	6.5	305.5	346.7	15.2	75.3	1.4	313.
3.7	16.5	1226.4	875.0	20.9	16.9	140.3	9.5	-6.1	7.3	305.5	343.6	14.0	78.1	2.0	314.
4.6	18.9	1477.2	850.0	18.8	17.1	153.6	8.5	-3.8	7.6	305.9	345.5	14.6	85.6	2.6	316.
5.7	21.0	1734.1	825.0	18.5	12.7	185.3	4.6	0.4	4.5	308.2	339.4	11.3	68.8	2.9	320.
6.6	23.4	1999.0	800.0	18.8	9.8	273.7	3.6	3.6	-0.2	311.2	336.3	9.6	55.9	2.9	323.
7.5	25.7	2271.8	775.0	18.9	-1.4	291.6	4.1	3.8	-1.5	314.2	327.8	4.6	25.8	2.7	326.
8.9	28.1	2559.1	750.0	17.0	-4.6	284.9	4.3	4.1	-1.1	315.0	326.0	3.6	22.5	2.4	330.
9.9	30.6	2839.7	725.0	14.6	-4.9	270.0	4.5	4.5	-0.0	315.5	326.6	3.7	28.5	2.3	335.
11.1	33.2	3135.0	700.0	12.2	-3.8	259.7	4.9	4.8	0.9	316.0	328.5	4.1	32.4	2.2	343.
12.3	35.9	3438.6	675.0	9.9	-3.2	246.2	5.6	5.2	2.3	316.7	330.2	4.5	39.7	2.2	352.
13.5	38.4	3750.6	650.0	6.7	-2.9	240.3	6.0	6.9	4.0	316.5	330.9	4.8	50.4	2.4	3.
14.5	41.0	4071.3	625.0	4.1	-3.6	242.1	10.2	9.0	4.7	317.1	331.3	4.7	57.3	2.8	13.
15.6	43.9	4402.2	600.0	1.4	-5.5	244.1	11.5	10.3	5.0	317.7	330.6	4.2	60.1	3.3	23.
16.8	46.9	4743.4	575.0	-1.4	-8.9	244.8	11.1	10.0	4.7	318.4	328.9	3.4	56.4	3.9	31.
18.0	49.9	5094.1	550.0	-4.3	-11.6	237.3	9.5	8.0	5.1	319.0	327.9	2.9	56.8	4.6	36.
19.4	53.9	5460.9	525.0	-7.2	-13.4	226.9	7.7	5.6	5.3	319.7	327.9	2.6	61.0	5.2	38.
20.5	55.8	5839.1	500.0	-10.5	-16.0	218.8	9.2	5.7	7.1	320.3	327.2	2.2	63.6	5.8	38.
22.0	59.1	6231.6	475.0	-13.5	-16.8	224.1	12.8	8.7	9.0	321.3	328.4	2.2	78.0	6.7	38.
23.2	62.6	6641.4	450.0	-15.9	-18.7	243.1	15.5	13.8	7.0	323.2	329.5	1.9	78.8	7.7	40.
24.8	65.9	7071.3	425.0	-17.8	-21.1	265.1	16.4	16.3	1.4	326.1	331.6	1.7	75.3	9.1	47.
24.4	69.6	7522.8	400.0	-21.2	-25.3	261.1	18.4	19.2	2.9	327.5	331.8	1.2	69.0	10.3	52.
29.1	73.2	7995.4	375.0	-24.7	-28.9	254.2	20.2	19.4	5.5	329.0	332.2	0.9	67.7	12.1	56.
30.0	77.2	8497.9	350.0	-28.4	-32.2	252.1	22.2	21.1	6.8	330.5	333.1	0.7	65.2	14.4	59.
32.1	81.3	9020.3	325.0	-33.0	-37.1	242.5	19.8	17.6	9.2	331.2	333.0	0.5	66.4	17.1	60.
34.1	85.6	9579.4	300.0	-37.4	-41.5	241.3	19.9	17.5	9.6	332.6	333.9	0.3	65.3	19.4	60.
36.1	90.2	10174.9	275.0	-41.7	99.9	252.4	21.1	20.1	6.4	334.9	999.9	99.9	999.9	21.9	61.
38.0	95.2	10812.6	250.0	-47.0	99.9	252.4	23.3	22.2	7.0	336.2	999.9	99.9	999.9	24.3	62.
40.1	100.2	11401.6	225.0	-52.9	99.9	246.4	25.1	23.0	10.1	337.5	999.9	99.9	999.9	27.3	63.
42.4	105.8	12251.0	200.0	-58.8	99.9	246.1	28.6	26.1	11.6	339.6	999.9	99.9	999.9	31.1	63.
45.3	112.0	13081.7	175.0	-63.3	99.9	257.3	26.8	25.9	5.8	345.5	999.9	99.9	999.9	35.9	64.
48.1	118.3	14014.1	150.0	-69.4	99.9	270.4	19.6	19.6	-0.1	350.5	999.9	99.9	999.9	39.4	66.
51.4	125.8	15123.2	125.0	-65.9	99.9	273.0	15.2	15.1	-0.8	375.7	999.9	99.9	999.9	42.8	68.
55.9	134.0	16467.9	100.0	-68.0	99.9	269.4	8.1	8.1	0.1	398.4	999.9	99.9	999.9	45.3	70.
61.7	142.3	18211.8	75.0	-64.9	99.9	342.1	3.1	1.0	-3.0	437.0	999.9	99.9	999.9	46.1	71.
49.4	151.0	20714.5	50.0	-61.1	99.9	71.9	8.6	-8.3	-1.7	499.5	999.9	99.9	999.9	44.8	71.
91.3	159.7	25106.7	25.0	-52.4	99.9	999.9	99.9	99.9	99.9	634.3	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 265
MIDLAND, TEXAS

26 MAY 1977
2325 GMT

79 264. C

TIME MIN	INCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.4	873.0	937.9	20.0	13.3	150.0	8.8	-4.4	7.6	311.7	341.7	10.7	76.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.0	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.0	950.0	99.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.0	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	15.7	950.7	903.0	28.0	99.9	154.8	7.9	-3.4	7.2	310.4	999.9	99.9	999.9	0.2	340.
1.9	17.6	1193.4	875.0	25.4	13.7	156.7	7.9	-3.1	7.2	310.3	342.1	11.4	48.5	0.5	338.
1.9	19.7	1453.6	850.0	27.1	12.7	165.1	6.7	-1.7	6.5	310.4	341.2	11.0	42.1	0.9	336.
2.9	21.0	1717.3	825.0	20.5	11.8	174.4	5.9	-0.6	5.4	310.3	340.1	10.6	57.5	1.2	342.
4.0	24.4	1976.8	800.0	18.4	10.0	192.0	3.9	0.3	3.8	310.9	338.2	9.7	58.1	1.5	346.
4.3	26.5	2250.7	775.0	17.0	5.3	238.1	4.4	3.7	2.3	312.1	333.1	7.3	46.1	1.7	351.
4.1	29.1	2529.1	750.0	14.2	4.0	262.4	7.8	7.7	1.0	312.0	331.8	6.8	50.2	1.7	4.
7.3	31.7	2814.5	725.0	11.5	0.3	268.0	11.8	11.8	0.4	312.4	328.2	5.4	45.1	2.0	24.
8.3	34.7	3107.0	700.0	9.1	-0.6	270.7	13.8	13.8	-0.2	312.6	326.1	5.3	50.7	2.4	43.
9.4	36.7	3407.4	675.0	6.9	-1.9	269.7	14.7	14.7	0.1	313.3	326.0	4.9	53.6	3.1	55.
10.6	39.8	3716.1	650.0	3.9	-4.1	266.3	17.5	17.5	1.1	313.4	326.4	4.3	58.7	4.1	64.
11.8	41.9	4033.5	625.0	1.4	-6.6	265.3	20.0	19.9	1.6	314.0	325.3	3.7	55.2	5.4	69.
13.4	44.7	4360.7	600.0	-1.6	-8.4	262.8	22.6	22.5	2.9	314.3	324.6	3.4	55.6	7.4	73.
15.4	47.6	4699.0	575.0	-3.9	-9.3	261.7	25.6	25.3	3.7	316.3	326.3	3.3	62.7	10.4	76.
14.9	50.5	5050.3	550.0	-4.7	-10.2	262.6	25.2	25.0	3.2	318.5	328.5	3.2	65.6	12.7	77.
14.9	53.7	5415.2	525.0	-4.7	-13.6	262.9	23.4	23.2	2.9	320.1	328.3	2.5	57.2	14.6	76.
13.4	56.1	5794.6	500.0	-9.4	-16.0	264.3	20.8	20.7	2.1	321.6	328.6	2.2	58.3	16.4	78.
23.5	59.4	6189.2	475.0	-19.2	-19.9	269.3	19.5	19.3	2.6	322.9	328.3	1.7	52.7	18.0	76.
22.2	62.6	6600.6	450.0	-15.1	-24.6	272.0	20.2	20.0	2.8	324.3	328.2	1.1	43.5	19.4	79.
23.4	65.8	7029.6	425.0	-18.6	-28.1	262.1	17.9	17.7	2.5	325.1	328.1	0.9	42.7	20.8	76.
24.7	69.1	7478.0	400.0	-22.2	-28.7	262.2	16.2	15.7	2.2	326.2	329.2	0.9	55.1	22.2	79.
26.7	72.4	7948.5	375.0	-26.7	-30.8	999.9	999.9	99.9	99.9	326.7	329.0	0.3	67.7	23.6	79.
24.2	74.7	8443.3	350.0	-31.0*	-33.6	999.9	999.9	99.9	99.9	327.0	329.3	0.6	77.7	999.9	999.
30.3	80.3	8965.7	325.0	-34.8	-38.2	999.9	999.9	99.9	99.9	328.7	330.3	0.4	70.9	999.9	999.
32.1	84.2	9516.0	300.0	-38.1*	-42.5	999.9	999.9	99.9	99.9	330.2	331.3	0.3	66.6	999.9	999.
34.1	88.2	10110.1	275.0	-42.5*	99.9	999.9	999.9	99.9	99.9	332.3	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	250.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9	999.
99.9	99.9	99.9	225.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9	999.
99.9	99.9	99.9	200.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9	999.
99.9	99.9	99.9	175.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9	999.
99.9	99.9	99.9	150.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9	999.
99.9	99.9	99.9	125.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9	999.
99.9	99.9	99.9	100.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9	999.
99.9	99.9	99.9	75.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9	999.
99.9	99.9	99.9	50.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9	999.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 4 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 4 DEG

STATION NO. 327
NASHVILLE, TENNESSEE

26 MAY 1977
2305 GMT

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

185 18. 1

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.2	140.0	999.0	28.4	11.5	360.0	4.2	0.0	-4.2	302.9	326.2	8.7	35.8	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	8.5	304.3	975.0	26.6	13.1	270.1	4.7	4.7	-0.0	301.9	328.5	9.8	43.2	0.5	194.
1.2	10.6	535.2	950.0	24.9	12.1	69.3	4.7	-4.4	-1.7	302.5	328.1	9.4	44.7	0.4	207.
2.0	12.9	768.1	925.0	22.4	10.6	38.9	7.2	-4.5	-5.6	302.2	326.1	8.7	47.4	0.9	212.
2.8	15.2	1005.5	900.0	20.0	9.6	43.8	7.2	-5.0	-5.2	302.1	325.1	8.4	51.1	1.1	215.
3.6	17.4	1245.0	875.0	18.1	9.5	48.4	7.2	-5.4	-4.8	302.6	326.1	8.5	56.9	1.5	218.
4.4	19.8	1485.3	850.0	15.6	8.5	55.9	6.8	-5.6	-3.8	302.5	325.1	8.2	62.4	1.8	220.
5.4	22.0	1748.0	825.0	13.3	8.3	71.9	6.5	-6.2	-2.0	302.7	325.7	8.4	71.4	2.1	224.
6.2	24.5	2006.7	800.0	11.4	7.4	88.2	7.1	-7.1	-0.2	303.4	325.8	8.1	76.0	2.4	228.
7.1	26.9	2271.6	775.0	9.7	4.6	95.6	8.3	-8.2	0.8	304.2	323.5	6.9	70.4	2.7	235.
8.2	29.3	2543.4	750.0	8.1	0.2	97.8	7.6	-7.5	1.0	305.6	320.4	5.2	56.7	3.1	241.
9.4	32.1	2823.5	725.0	7.4	-2.4	87.7	7.9	-7.9	-0.3	307.5	320.5	4.4	50.0	3.6	246.
10.5	34.7	3111.5	700.0	5.6	-6.5	79.1	9.1	-8.9	-1.7	308.7	318.7	3.4	41.4	4.1	248.
11.6	37.1	3408.4	675.0	4.2	-7.4	77.5	8.6	-8.4	-1.9	310.4	320.1	3.3	42.4	4.8	249.
12.9	39.9	3714.3	650.0	1.6	-9.1	73.7	8.5	-8.2	-2.4	310.8	319.8	3.0	44.7	5.3	250.
13.8	42.5	4029.4	625.0	-0.4	-7.6	76.0	8.6	-8.3	-2.1	312.0	322.5	3.5	58.6	5.9	250.
15.1	45.4	4355.6	600.0	-1.2	-14.5	82.6	10.2	-10.1	-1.3	314.7	321.2	2.1	35.5	6.5	251.
16.2	48.3	4693.9	575.0	-3.1	-23.9	85.5	11.4	-11.3	-0.9	316.4	319.5	1.0	18.2	7.3	253.
17.4	51.1	5044.5	550.0	-5.1	-19.6	87.7	11.0	-10.9	-0.4	318.1	323.1	1.6	33.1	8.2	254.
18.8	54.3	5408.7	525.0	-7.4	-15.6	88.5	12.0	-12.0	-0.3	319.6	326.5	2.2	55.8	9.1	256.
20.3	57.1	5787.4	500.0	-9.5	-14.3	80.0	10.9	-10.7	-1.9	321.5	329.5	2.5	67.8	10.0	257.
21.6	60.4	6182.2	475.0	-12.6	-15.8	69.6	9.8	-9.1	-3.4	322.4	329.9	2.3	76.8	10.8	257.
23.0	63.7	6592.6	450.0	-15.9	-16.6	63.5	8.7	-7.8	-3.9	323.2	330.7	2.3	84.1	11.6	256.
24.5	67.0	7022.1	425.0	-17.7	-23.6	62.6	6.1	-5.4	-2.8	326.3	330.8	1.3	59.6	12.3	255.
26.0	70.4	7473.0	400.0	-21.4	-27.4	62.8	5.6	-5.0	-2.4	327.2	330.7	1.0	57.8	12.7	255.
27.6	74.0	7945.2	375.0	-25.3	-31.3	64.0	5.2	-4.6	-2.3	328.1	330.7	0.7	56.8	13.2	254.
29.4	77.9	8442.5	350.0	-29.1	-37.7	69.1	3.8	-3.6	-1.4	329.5	331.0	0.4	43.0	13.8	254.
32.0	81.7	8968.2	325.0	-33.2	-44.5	64.4	3.8	-3.4	-1.6	330.9	331.7	0.2	21.1	14.3	254.
34.1	85.7	9524.9	300.0	-38.3	-48.9	99.4	3.3	-3.3	0.5	331.4	332.0	0.1	31.4	14.7	254.
36.0	90.0	10116.8	275.0	-43.3	99.9	112.1	3.3	-3.1	1.3	332.5	999.9	99.9	999.9	15.0	255.
38.3	94.5	10750.9	250.0	-48.7	99.9	117.3	4.1	-3.6	1.9	333.7	999.9	99.9	999.9	15.4	256.
41.0	99.4	11434.1	225.0	-54.2	99.9	136.1	5.4	-3.7	3.9	335.4	999.9	99.9	999.9	15.9	258.
43.7	104.4	12178.8	200.0	-60.4	99.9	123.5	4.6	-3.8	2.5	337.1	999.9	99.9	999.9	16.4	260.
46.5	110.0	13001.7	175.0	-64.8	99.9	307.4	2.3	1.9	-1.4	343.0	999.9	99.9	999.9	16.8	261.
48.4	115.8	13946.1	150.0	-62.6	99.9	335.3	3.8	1.8	-3.4	362.3	999.9	99.9	999.9	16.7	259.
54.7	122.8	15077.2	125.0	-62.1	99.9	340.3	5.2	1.8	-4.9	382.5	999.9	99.9	999.9	16.2	254.
59.9	130.3	16459.8	100.0	-61.7	99.9	311.0	5.3	4.0	-3.5	408.6	999.9	99.9	999.9	15.9	249.
66.8	138.3	18270.7	75.0	-62.9	99.9	16.3	2.8	-0.7	-2.7	441.0	999.9	99.9	999.9	15.8	244.
75.4	146.7	20760.6	50.0	-57.6	99.9	42.2	4.1	-2.7	-3.0	507.9	999.9	99.9	999.9	16.6	243.
99.2	155.7	25196.9	25.0	-52.1	99.9	106.0	7.0	-6.7	1.9	635.1	999.9	99.9	999.9	22.2	243.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 340
LITTLE ROCK, ARKANSAS

25 MAY 1977
2300 GMT

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

153 11. 1

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	*.0	177.0	991.0	24.0	15.7	20.0	4.2	-1.4	-3.9	302.7	333.5	11.4	45.0	0.0	0.
99.9	99.9	99.0	1000.1	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	9 .9	999.
0.0	9.5	329.7	974.0	27.0	14.9	57.1	2.9	-2.4	-1.6	302.4	332.3	11.0	47.6	0.2	219.
1.0	10.0	552.4	950.0	24.4	13.8	49.7	5.9	-4.5	-3.8	301.9	330.4	10.5	51.6	0.4	226.
2.0	13.1	785.4	925.0	22.1	12.8	49.0	7.2	-5.4	-4.7	301.9	329.4	10.1	55.8	0.7	227.
3.0	15.7	1022.9	900.0	20.0	12.0	50.2	6.2	-4.8	-4.0	302.1	329.0	9.9	60.1	1.0	228.
4.1	17.4	1265.5	875.0	18.2	10.6	50.6	5.9	-4.5	-3.7	302.7	329.1	9.3	61.-	1.3	229.
5.1	20.0	1513.2	850.0	16.1	9.0	50.1	5.4	-4.5	-3.7	303.1	329.0	8.8	58.4	1.7	229.
6.1	22.2	1766.5	825.0	14.0	6.5	47.9	5.5	-4.1	-3.7	303.4	329.7	6.9	56.4	2.0	229.
7.0	24.7	2025.6	800.0	12.0	3.5	51.1	6.1	-4.7	-3.8	304.0	329.3	6.2	55.9	2.3	229.
7.9	27.0	2291.9	775.0	11.0	1.2	55.1	6.6	-5.4	-3.8	305.7	329.1	5.4	50.7	2.7	230.
8.9	29.6	2564.1	750.0	9.9	-2.2	52.1	6.2	-4.9	-3.9	306.2	328.8	4.3	45.5	3.1	230.
9.9	32.2	2843.8	725.0	6.9	-7.8	48.5	6.2	-4.7	-4.1	307.0	328.8	3.0	34.4	3.4	230.
11.0	34.9	3131.1	700.0	5.0	-14.6	46.2	6.6	-4.9	-4.4	309.0	329.5	1.8	22.8	3.8	230.
12.0	37.3	3427.4	675.0	4.1	-17.9	44.3	6.7	-4.7	-4.7	310.2	329.7	1.4	16.6	4.2	230.
13.1	40.1	3733.1	650.0	2.3	-20.9	42.2	5.4	-3.5	-4.0	311.6	329.1	1.1	16.6	4.6	229.
14.2	42.9	4049.4	625.0	1.4	-7.0	43.1	4.8	-3.3	-3.5	314.1	325.1	3.7	54.1	5.0	229.
15.4	45.6	4377.1	600.0	-0.5	-9.8	7.7	3.7	-0.5	-3.6	315.5	325.6	3.3	53.5	5.3	228.
16.5	48.6	4716.7	575.0	-2.8	-15.7	349.6	5.0	1.4	-4.8	317.1	323.4	2.0	35.8	5.4	225.
19.0	51.3	5067.8	550.0	-4.3	-21.3	347.1	6.5	1.5	-6.4	319.0	323.2	1.3	25.0	5.7	221.
19.6	54.3	5432.9	525.0	-6.6	-23.8	351.7	6.6	0.9	-6.5	320.5	324.1	1.1	24.1	6.0	217.
20.9	57.1	5812.7	500.0	-7.9	-32.4	355.1	6.7	0.5	-6.7	323.4	325.1	0.5	11.9	6.5	213.
22.1	60.3	6209.0	475.0	-11.1	-33.5	351.4	6.6	1.0	-6.5	324.2	325.9	0.5	13.7	6.9	211.
23.7	63.6	6621.8	450.0	-14.7	-35.7	347.8	5.4	1.2	-5.8	325.3	326.7	0.4	14.2	7.3	208.
25.3	66.9	7052.2	425.0	-17.7	-39.9	354.3	4.6	0.5	-4.6	326.3	327.3	0.3	12.2	7.7	205.
27.0	70.3	7503.0	400.0	-20.7	-41.7	354.5	4.8	0.5	-4.8	328.1	329.0	0.2	13.1	8.1	204.
29.8	73.7	7976.8	375.0	-24.3	-42.0	336.9	6.4	2.5	-5.9	329.4	330.4	0.2	17.5	8.6	201.
30.6	77.5	8478.3	350.0	-28.5	-45.1	341.1	5.9	2.2	-5.5	330.3	331.1	0.2	18.4	9.1	198.
32.2	81.2	9001.9	325.0	-32.4	-49.8	339.2	7.5	2.7	-7.0	332.0	332.6	0.1	17.8	9.7	195.
34.2	85.3	9562.2	300.0	-36.4	-52.1	339.4	7.1	2.6	-6.6	334.0	334.4	0.1	17.9	10.4	193.
36.3	89.5	10159.0	275.0	-41.3	99.9	330.1	9.5	4.3	-7.4	335.4	999.9	99.9	999.9	11.1	190.
38.5	94.0	10799.4	250.0	-46.4	99.9	324.5	11.5	6.6	-9.4	336.7	999.9	99.9	999.9	12.1	185.
40.5	98.6	11480.6	225.0	-52.5	99.9	319.7	13.2	8.5	-10.1	338.1	999.9	99.9	999.9	13.5	180.
43.6	103.4	12204.1	200.0	-58.4	99.9	304.5	14.8	12.2	-8.4	339.7	999.9	99.9	999.9	15.0	174.
46.2	109.2	13067.8	175.0	-65.1	99.9	298.7	14.0	14.0	-7.7	342.6	999.9	99.9	999.9	16.7	167.
48.3	115.0	13999.2	150.0	-64.8	99.9	294.6	11.4	10.3	-4.7	354.5	999.9	99.9	999.9	18.7	161.
53.2	121.7	15114.1	125.0	-63.4	99.9	280.4	6.9	6.5	-2.3	340.3	999.9	99.9	999.9	19.9	156.
57.9	129.0	14496.9	100.0	-64.2	99.9	245.4	3.2	2.9	1.3	403.7	999.9	99.9	999.9	20.8	154.
64.1	137.0	18267.0	75.0	-63.4	99.9	123.0	3.1	-2.6	1.7	439.9	999.9	99.9	999.9	21.0	153.
72.0	145.3	20745.1	50.0	-58.8	99.9	57.8	3.8	-4.9	-3.1	505.1	999.9	99.9	999.9	21.8	150.
85.9	154.0	23190.1	25.0	-51.6	99.9	999.9	999.9	99.9	99.9	636.2	999.9	99.9	999.9	22.0	171.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 349
MONETT, MISSOURI

26 MAY 1977
2307 GMT

153 13. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MIX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.5	479.0	941.4	26.7	16.9	130.0	3.1	-2.4	2.0	303.3	337.7	12.7	55.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	10.9	547.5	950.0	25.6	16.0	312.4	3.7	2.8	-2.5	303.2	336.2	12.2	58.4	0.5	306.
1.2	12.4	777.5	925.0	23.6	14.2	272.1	3.5	3.5	-0.1	303.4	333.6	11.1	55.6	0.5	306.
2.1	15.2	1014.2	900.0	21.1	13.0	113.9	5.6	-5.1	2.3	303.2	332.0	10.6	60.1	0.8	306.
3.0	17.4	1259.6	875.0	19.9	12.0	116.1	5.9	-5.3	2.6	303.5	331.2	10.1	64.1	1.1	299.
4.0	19.9	1508.0	850.0	16.6	11.1	114.3	5.9	-5.4	2.4	303.6	330.4	9.9	69.7	1.4	298.
5.0	22.2	1761.7	825.0	14.3	9.8	116.4	5.7	-5.1	2.5	303.7	329.3	9.3	74.7	1.8	297.
5.9	24.8	2021.1	800.0	12.7	9.5	120.7	5.3	-4.5	2.6	304.3	329.2	9.1	83.3	2.1	298.
7.0	27.2	2287.1	775.0	11.1	-0.1	112.1	5.1	-4.7	1.9	305.8	319.9	4.9	46.1	2.4	298.
8.0	29.9	2560.1	750.0	9.2	1.5	99.9	4.9	-4.9	0.8	306.6	322.9	5.7	58.3	2.7	297.
9.1	32.7	2840.7	725.0	7.0	-0.4	100.8	5.3	-5.2	1.0	307.2	322.0	5.1	59.0	3.0	296.
10.2	35.7	3128.1	700.0	5.5	-6.3	104.8	4.5	-4.4	1.5	308.6	318.9	3.5	43.4	3.4	293.
11.5	38.0	3425.2	675.0	4.1	-14.5	115.8	4.0	-3.6	1.7	311.4	317.1	1.8	22.5	3.7	293.
12.8	40.5	3732.2	650.0	3.7	-20.1	129.4	3.3	-2.6	2.1	313.2	317.0	1.2	15.5	3.9	294.
13.9	43.3	4049.7	625.0	1.5	-10.3	147.7	2.5	-1.4	2.1	314.2	322.8	2.8	41.0	4.1	295.
14.9	46.3	4375.9	600.0	-0.6	-10.4	194.4	1.0	0.2	0.9	315.4	324.4	2.9	47.9	4.2	296.
16.1	49.3	4715.7	575.0	-2.8	-17.7	243.2	0.8	0.7	0.4	316.8	322.1	1.7	30.6	4.2	296.
17.2	52.1	5044.4	550.0	-4.9	-25.6	252.6	1.3	1.3	0.4	318.3	321.2	0.9	17.8	4.1	297.
18.5	55.2	5430.3	525.0	-7.8	-25.9	239.1	1.4	1.2	0.7	319.1	322.0	0.9	21.7	4.1	298.
19.9	58.3	5807.9	500.0	-10.3	-31.1	232.3	0.9	0.7	0.6	320.5	322.5	0.6	16.4	4.0	300.
21.3	61.6	6201.2	475.0	-12.5	-36.7	240.7	1.1	1.0	0.4	322.5	323.7	0.3	11.1	4.0	301.
22.3	65.0	6612.4	450.0	-14.7	-37.7	163.1	1.5	-0.4	1.4	325.3	328.2	0.9	36.9	4.0	302.
24.4	68.3	7044.2	425.0	-17.4	-29.1	176.6	1.8	-0.1	1.8	326.7	329.5	0.9	35.0	4.1	302.
26.0	71.7	7495.8	400.0	-20.7	-29.0	247.5	4.3	4.0	1.7	328.2	331.2	0.9	46.9	4.0	305.
27.7	75.5	7969.9	375.0	-24.4	-34.1	251.1	6.6	6.2	2.1	329.3	331.3	0.6	39.7	3.7	313.
29.3	79.5	8464.6	350.0	-29.1	-40.5	252.4	6.3	6.0	1.9	330.9	332.1	0.3	28.9	3.4	323.
31.2	83.3	8987.0	325.0	-31.9	-45.0	247.5	4.6	4.2	1.7	332.7	333.5	0.2	25.7	3.3	332.
33.1	87.5	9557.2	300.0	-36.4	-48.7	262.1	4.6	4.6	0.6	334.1	334.6	0.1	26.4	3.3	341.
35.2	92.0	10153.7	275.0	-41.8	99.9	249.9	3.7	3.7	0.0	334.7	999.9	99.9	999.9	3.1	351.
37.5	96.4	10787.0	250.0	-46.9	99.9	284.6	3.7	3.5	-0.9	336.4	999.9	99.9	999.9	3.0	0.
40.1	101.4	11491.7	225.0	-53.2	99.9	295.2	5.1	4.9	-1.3	337.0	999.9	99.9	999.9	2.9	12.
42.5	106.8	12229.9	200.0	-59.2	99.9	270.6	7.4	7.4	-0.1	339.1	999.9	99.9	999.9	3.1	30.
45.9	112.5	13055.7	175.0	-64.5	99.9	267.1	8.5	8.5	0.4	343.5	999.9	99.9	999.9	4.2	48.
49.5	118.7	13991.4	150.0	-65.5	99.9	257.5	5.7	5.6	1.4	357.3	999.9	99.9	999.9	5.3	56.
52.8	125.8	15114.0	125.0	-61.7	99.9	244.0	5.7	5.6	0.6	383.3	999.9	99.9	999.9	6.8	61.
57.4	133.3	16497.3	100.0	-61.1	99.9	257.5	2.5	2.5	0.5	403.9	999.9	99.9	999.9	7.9	65.
63.1	141.9	18271.2	75.0	-62.8	99.9	321.5	1.6	1.0	-1.2	441.3	999.9	99.9	999.9	8.1	66.
71.1	149.0	20804.1	50.0	-58.3	99.9	45.0	4.9	-4.1	-4.1	536.0	999.9	99.9	999.9	7.5	70.
83.8	157.3	25249.8	25.0	-48.5	99.9	999.9	999.9	99.9	99.9	64..6	999.9	99.9	999.9	1.5	52.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 353
OKLAHOMA CITY, OKLAHOMA

26 MAY 1977
2300 GMT

153 15. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	0.5	392.0	969.4	25.6	19.5	130.0	8.3	-6.4	5.3	302.0	339.7	14.1	68.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	973.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
9.9	10.5	515.6	950.0	25.2	16.6	252.4	4.4	4.1	1.3	302.6	337.0	12.7	56.8	0.7	216.
1.0	12.7	750.1	925.0	24.2	16.7	189.4	4.2	0.7	4.2	304.1	339.4	13.1	62.8	0.7	221.
2.0	15.0	989.4	900.0	21.5	15.6	145.4	9.4	-5.4	7.8	303.7	337.6	12.5	69.0	1.1	323.
2.9	17.2	1233.3	875.0	18.8	14.5	149.0	10.7	-5.5	9.2	303.3	335.8	12.0	76.3	1.7	324.
3.9	19.6	1482.0	850.0	16.6	12.4	157.6	8.4	-3.2	7.8	303.5	332.7	10.7	76.3	2.2	327.
4.9	21.9	1736.1	825.0	14.8	11.6	157.6	8.0	-3.0	7.4	304.0	332.7	10.5	82.8	2.7	326.
5.9	24.3	1995.9	800.0	12.2	8.3	160.5	8.7	-3.9	8.1	304.2	331.1	8.7	77.4	3.2	330.
6.9	26.4	2243.2	775.0	12.9	2.2	159.1	7.4	-2.3	6.9	305.7	323.3	5.8	51.3	3.7	332.
8.0	29.2	2536.8	750.0	10.0	-0.7	148.7	8.6	-4.5	7.4	307.5	321.5	4.9	47.2	4.2	332.
8.9	31.8	2816.6	725.0	8.3	-5.1	159.0	9.7	-3.5	9.0	309.6	319.3	3.6	38.2	4.7	332.
9.9	34.5	3105.2	700.0	5.9	-7.6	169.1	9.8	-1.9	9.7	309.1	318.3	3.1	37.0	5.2	333.
10.7	37.0	3407.0	675.0	4.4	-11.1	177.0	10.0	-0.5	10.0	310.5	317.9	2.4	31.3	5.7	335.
11.7	39.8	3709.5	650.0	2.9	-5.2	190.4	10.2	1.8	10.1	312.3	324.3	4.0	55.3	6.3	338.
12.9	42.4	4025.9	625.0	1.1	-9.9	201.7	11.8	4.4	11.0	313.8	322.6	2.9	42.4	6.8	341.
14.1	45.3	4359.4	600.0	-1.3	-10.5	206.9	13.8	5.9	12.8	314.4	323.4	2.9	49.6	7.5	347.
15.5	48.3	4709.1	575.0	-4.1	-11.6	211.4	13.8	7.2	11.7	315.2	323.6	2.7	55.8	8.4	351.
16.7	51.1	5039.6	550.0	-6.2	-9.5	222.5	14.8	10.0	10.9	316.7	326.8	3.1	78.4	9.2	356.
18.1	54.1	5407.0	525.0	-8.1	-10.2	231.6	14.2	11.1	8.9	318.8	329.1	3.4	84.5	10.0	2.
19.3	57.1	5780.8	500.0	-10.4	-12.3	235.6	13.7	11.0	7.5	320.2	329.5	3.0	86.7	10.6	6.
20.7	59.8	6177.8	475.0	-13.5	-15.6	237.5	11.4	9.6	6.1	321.9	328.8	2.4	84.6	11.3	10.
22.1	64.0	6537.0	450.0	-16.4	-17.5	233.8	10.7	9.6	6.3	322.2	329.1	2.1	94.0	11.9	13.
23.7	67.3	7010.6	425.0	-19.3	-22.6	231.3	10.0	8.0	5.9	324.3	329.1	1.5	74.5	12.7	16.
25.5	70.5	7459.8	400.0	-21.9	-31.1	230.1	10.0	7.7	6.4	326.6	329.1	0.7	42.8	13.6	19.
27.1	74.5	7931.7	375.0	-24.1	-34.1	227.4	10.9	7.5	8.0	328.4	330.4	0.6	42.6	14.5	21.
28.5	78.5	8439.7	350.0	-29.2	-33.9	216.8	12.2	7.1	9.5	329.5	331.6	0.6	63.2	15.5	22.
30.5	82.1	8957.7	325.0	-33.9	-37.4	213.1	14.2	7.7	11.9	330.9	332.6	0.5	65.4	16.9	23.
32.4	86.5	9511.2	300.0	-37.6	-42.1	224.0	15.3	10.7	11.0	332.4	333.6	0.3	62.2	18.5	24.
34.7	91.0	10105.0	275.0	-42.7	99.9	241.1	16.7	14.7	8.1	333.4	999.9	99.9	999.9	20.2	27.
36.3	95.7	10741.8	250.0	-47.3	99.9	250.4	19.3	18.2	6.5	335.0	999.9	99.9	999.9	21.7	30.
38.4	100.7	11430.4	225.0	-53.9	99.9	246.9	22.0	20.2	8.7	335.9	999.9	99.9	999.9	24.0	34.
40.4	106.0	12173.0	200.0	-60.7	99.9	245.2	24.7	22.5	10.4	336.6	999.9	99.9	999.9	26.8	38.
43.3	111.9	12997.0	175.0	-66.9	99.9	240.3	27.3	23.7	13.5	339.5	999.9	99.9	999.9	30.6	41.
46.1	118.3	13933.6	150.0	-64.6	99.9	230.1	16.0	12.3	10.3	359.9	999.9	99.9	999.9	34.2	43.
50.0	125.5	15048.4	125.0	-63.2	99.9	262.7	8.1	8.1	1.0	390.5	999.9	99.9	999.9	36.4	44.
54.7	133.7	16419.8	100.0	-63.6	99.9	241.9	4.7	4.2	0.6	405.0	999.9	99.9	999.9	37.7	45.
61.0	141.3	18146.5	75.0	-62.4	99.9	179.2	2.4	-0.0	2.4	442.1	999.9	99.9	999.9	38.6	45.
63.6	149.3	20717.2	50.0	-58.3	99.9	30.5	4.7	-2.4	-4.0	506.2	999.9	99.9	999.9	37.5	46.
87.2	159.0	25099.2	25.0	-52.5	99.9	74.6	8.8	-8.5	-2.3	634.6	999.9	99.9	999.9	32.1	43.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 362
AMARILLO, TEXAS

26 MAY 1977
2300 GMT

150 10. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	17.7	1094.0	885.0	14.1	14.5	130.0	3.7	-2.8	2.4	293.5	331.1	11.8	96.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.0	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.0	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	900.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.4	18.7	8191.1	875.0	16.4	12.3	197.5	4.9	2.7	4.5	300.4	328.8	10.4	76.9	0.2	350.
1.3	21.1	1439.1	850.0	17.6	10.7	207.3	9.6	4.4	8.6	304.6	330.9	9.6	63.8	0.6	12.
2.3	23.7	1494.5	825.0	16.5	10.0	214.1	12.1	7.1	9.8	306.0	332.1	9.4	65.3	1.2	23.
3.2	26.1	1554.0	800.0	14.1	9.4	233.0	14.5	11.6	8.7	305.2	332.1	9.3	73.3	2.0	30.
4.3	28.9	2223.8	775.0	12.7	5.8	211.2	13.2	7.2	11.1	307.5	326.7	7.5	62.9	2.8	37.
5.3	31.6	2498.7	750.0	11.1	1.3	222.3	15.5	10.5	11.4	308.5	324.0	5.6	51.0	3.6	39.
6.4	34.3	2780.7	725.0	8.9	0.2	230.0	17.2	14.1	9.9	309.2	324.8	5.4	54.7	4.7	39.
7.4	36.9	3070.4	700.0	7.0	-0.5	235.7	18.4	15.2	10.3	310.2	325.6	5.3	58.7	5.7	42.
8.4	39.8	3368.7	675.0	5.3	-1.6	238.5	17.0	14.9	9.9	311.6	326.5	5.1	61.2	6.8	44.
9.4	42.5	3674.1	650.0	2.9	-4.0	238.6	17.0	14.5	8.9	312.2	325.2	4.4	60.9	7.9	45.
10.4	45.5	3992.7	625.0	0.4	-5.5	243.4	16.7	15.0	7.5	312.9	325.0	4.1	64.8	8.8	47.
11.6	48.5	4319.9	600.0	-2.6	-6.2	244.6	16.9	15.3	7.2	313.1	325.1	4.0	75.9	9.8	49.
12.7	51.4	4655.2	575.0	-5.3	-7.1	240.5	17.8	15.5	8.7	313.8	325.5	3.9	87.2	10.9	51.
13.8	54.6	5007.0	550.0	-8.0	-8.1	234.6	18.3	14.9	10.6	314.6	326.0	3.9	95.1	12.3	51.
15.2	57.6	5364.3	525.0	-9.5	-9.6	231.1	19.6	15.3	12.3	317.1	327.9	3.5	96.2	13.7	51.
16.7	60.9	5730.9	500.0	-12.7	-16.4	228.9	23.7	17.8	15.6	317.5	324.2	2.1	74.6	15.7	51.
18.5	64.9	6120.3	475.0	-15.0	-19.6	225.2	26.2	18.6	18.5	319.4	324.9	1.7	67.6	18.3	51.
19.9	67.6	6525.8	450.0	-18.6	-28.9	225.2	24.8	20.4	20.2	319.8	322.5	0.8	36.9	20.7	50.
21.2	70.9	6960.7	425.0	-20.4	-27.5	224.3	29.3	21.2	20.2	322.4	326.0	0.9	52.6	22.9	50.
22.6	74.7	7406.9	400.0	-23.5	-23.8	224.9	30.2	21.3	21.4	324.5	327.2	0.8	55.8	25.4	49.
24.1	78.5	7878.0	375.0	-26.8	-33.9	216.5	30.5	18.1	24.5	326.2	328.2	0.6	50.7	28.3	45.
24.1	82.5	8371.1	350.0	-29.7	-37.2	205.4	34.9	14.5	30.7	328.8	330.4	0.4	47.6	31.8	46.
28.0	86.5	8894.0	325.0	-34.0	-40.9	197.7	32.1	9.7	30.4	329.9	331.1	0.3	46.2	35.3	44.
29.7	90.8	9449.0	300.0	-39.0	-45.8	191.0	29.6	5.4	27.9	330.3	331.1	0.2	48.4	38.0	41.
31.6	95.4	10041.7	275.0	-43.5	99.0	185.5	27.6	2.7	27.5	332.3	999.9	99.9	999.9	40.7	39.
33.5	100.0	10678.3	250.0	-48.1	99.9	173.0	18.3	-2.3	18.7	334.6	999.9	99.9	999.9	42.8	37.
35.8	105.0	11363.6	225.0	-51.9	99.9	185.5	24.1	2.3	24.0	339.0	999.9	99.9	999.9	44.8	35.
37.9	110.5	12116.0	200.0	-58.3	99.9	193.6	27.5	6.5	25.8	340.4	999.9	99.9	999.9	46.8	33.
40.3	116.0	12945.1	175.0	-62.6	99.9	206.9	27.0	12.2	24.1	346.6	999.9	99.9	999.9	51.6	32.
42.2	122.7	13864.7	150.0	-61.7	99.9	221.9	28.6	19.1	21.3	363.9	999.9	99.9	999.9	56.1	32.
47.1	129.7	15076.4	125.0	-57.0	99.9	239.3	16.1	13.8	9.2	391.7	999.9	99.9	999.9	61.4	34.
51.4	136.9	16491.1	100.0	-60.6	99.9	299.3	10.4	7.9	6.8	410.7	999.9	99.9	999.9	66.4	36.
57.2	144.7	18201.4	75.0	-63.2	99.9	316.1	6.0	4.1	-4.3	440.5	999.9	99.9	999.9	64.5	36.
65.9	152.3	20234.7	50.0	-59.1	99.9	30.0	6.4	-3.2	-5.5	504.3	999.9	99.9	999.9	59.7	33.
78.4	161.0	25121.2	25.0	-55.7	99.9	75.4	11.7	-11.3	-2.9	624.7	999.9	99.9	999.9	59.7	33.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 433
SALEM, ILLINOIS

26 MAY 1977
2300 GMT

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

160 12. 1

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.5	175.0	999.4	31.1	7.5	40.0	3.7	-3.2	-1.8	305.2	323.8	6.6	23.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.4	8.9	705.8	975.0	29.7	8.5	313.1	3.7	2.7	-2.5	305.0	325.1	7.2	26.7	0.7	332.
1.5	10.9	534.5	950.0	27.7	8.9	29.2	6.0	-2.9	-5.2	305.3	326.5	7.6	30.8	0.9	225.
2.5	13.3	771.7	925.0	25.7	7.5	46.0	8.5	-6.1	-5.9	305.6	325.5	7.1	31.2	1.2	226.
3.4	15.7	1011.7	900.0	23.6	7.5	48.4	9.3	-6.2	-5.5	305.9	326.2	7.2	35.5	1.5	226.
4.2	18.1	1246.9	875.0	21.2	7.5	50.4	7.4	-4.0	-4.7	305.4	327.2	7.6	42.1	2.2	227.
5.1	20.5	1506.9	850.0	18.8	7.6	54.0	8.5	-6.9	-5.0	305.9	327.5	7.7	46.0	2.6	228.
5.8	23.0	1762.0	825.0	16.2	6.9	49.4	7.9	-5.9	-5.1	305.7	327.0	7.6	51.9	3.0	229.
6.7	25.5	2023.0	800.0	13.7	6.3	43.6	6.7	-4.6	-4.8	305.5	326.8	7.5	60.6	3.3	228.
7.5	29.0	2289.5	775.0	11.1	6.0	46.7	6.9	-5.0	-4.8	305.8	327.0	7.6	70.5	3.7	228.
8.4	30.9	2562.5	750.0	8.2	5.6	49.0	6.9	-5.1	-4.5	305.4	326.8	7.7	64.0	4.0	228.
9.5	33.4	2842.2	725.0	6.7	-5.0	58.7	8.0	-6.8	-4.2	306.9	327.7	7.7	43.4	4.5	228.
10.7	36.2	3129.9	700.0	5.7	-9.6	67.1	8.9	-8.2	-3.5	308.8	316.7	2.6	32.2	5.1	230.
11.4	39.1	3425.2	675.0	3.9	-14.6	69.2	9.6	-9.0	-3.4	310.1	315.7	1.8	24.3	5.7	232.
12.9	41.9	3727.0	650.0	2.4	-14.9	76.5	9.8	-9.6	-2.3	311.7	317.4	1.8	26.5	6.3	234.
14.7	44.9	4037.3	625.0	0.1	-19.9	77.8	9.7	-9.1	-2.0	312.6	316.6	1.3	20.5	7.0	237.
15.5	48.0	4357.2	600.0	-1.9	-24.3	83.4	9.0	-8.9	-0.9	314.0	316.9	0.9	15.9	7.6	239.
15.9	50.9	4710.8	575.0	-3.5	-25.6	98.7	8.2	-8.1	1.2	315.9	318.4	0.9	14.7	8.2	241.
19.3	54.2	5041.0	550.0	-5.1	-31.3	111.0	9.5	-8.9	3.4	319.1	319.8	0.5	10.6	8.7	244.
19.7	57.4	5425.0	525.0	-7.7	-32.1	123.3	11.0	-9.2	6.1	319.7	321.4	0.5	11.6	9.3	249.
21.5	60.9	5807.1	500.3	-9.8	-32.4	122.2	11.4	-9.7	6.1	321.2	322.9	0.5	13.7	10.0	254.
23.0	64.3	6194.6	475.0	-12.9	-25.6	124.1	10.1	-8.3	5.6	322.0	325.4	1.0	34.8	10.7	258.
24.6	67.9	6606.8	450.0	-15.5	-21.3	120.1	7.0	-6.1	3.5	323.7	328.8	1.5	61.1	11.3	261.
25.2	71.4	7035.7	425.0	-18.9	-29.9	105.9	3.2	-3.1	0.9	324.8	327.4	0.7	37.0	11.7	263.
28.1	75.1	7444.2	400.0	-22.2	-37.7	148.0	2.0	-1.1	1.7	326.1	327.5	0.4	22.8	11.9	263.
29.9	79.4	7855.4	375.0	-25.9	-40.8	117.2	1.3	-1.1	0.6	327.5	328.5	0.3	22.7	11.9	264.
31.8	83.3	8291.9	350.0	-29.8	-44.8	35.8	2.4	-1.4	-2.0	328.6	329.3	0.2	21.5	12.0	264.
39.7	87.4	8775.0	325.0	-33.7	-47.8	89.6	1.9	-1.9	-0.0	330.3	330.9	0.2	22.4	12.2	263.
35.7	92.0	9271.4	300.0	-38.2	-51.5	176.4	2.4	-0.1	2.4	331.4	332.0	0.1	23.0	12.3	264.
37.9	96.5	10179.3	275.0	-43.5	99.9	214.4	1.7	0.9	1.4	332.7	999.9	99.9	999.9	12.1	265.
40.2	101.4	10756.3	250.0	-49.3	99.9	313.5	1.3	0.9	-0.9	333.1	999.9	99.9	999.9	12.1	265.
42.9	107.0	11439.9	225.0	-54.1	99.9	257.2	1.0	1.0	0.2	333.7	999.9	99.9	999.9	12.0	264.
45.4	112.6	12185.9	200.0	-59.9	99.9	250.2	2.5	2.4	0.9	337.9	999.9	99.9	999.9	11.7	265.
48.3	118.9	13012.5	175.0	-62.9	99.9	273.3	4.2	4.2	-0.2	346.3	999.9	99.9	999.9	11.2	265.
51.3	125.5	13940.3	150.0	-64.0	99.9	334.7	4.8	2.0	-4.3	359.8	999.9	99.9	999.9	10.6	261.
55.1	132.7	15092.8	125.0	-60.7	99.9	256.3	1.4	1.3	0.3	385.0	999.9	99.9	999.9	10.7	249.
59.9	139.7	16473.9	100.0	-62.6	99.9	330.7	2.0	1.0	-1.7	406.9	999.9	99.9	999.9	10.6	255.
65.0	147.0	18253.9	75.0	-60.9	99.9	355.2	4.1	0.3	-4.1	445.5	999.9	99.9	999.9	10.6	252.
72.9	156.5	20796.4	50.0	-57.9	99.9	65.9	6.3	-5.7	-2.6	507.2	999.9	99.9	999.9	11.7	249.
85.4	162.7	25259.9	25.0	-50.0	99.9	999.9	999.9	99.9	99.9	641.5	999.9	99.9	999.9	10.1	246.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
& BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 451
DODGE CITY, KANSAS

26 MAY 1977
2315 GMT

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

150 14. 1

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	13.5	731.0	919.7	21.7	12.8	170.0	7.7	-1.3	7.6	302.1	329.8	10.2	57.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9	999.
0.5	15.1	969.9	900.9	13.5	12.2	999.9	999.9	99.9	99.9	301.6	328.9	10.0	92.6	999.9	999.
1.5	17.4	1210.7	875.0	17.0	10.6	999.9	999.9	99.9	99.9	301.4	326.6	9.1	66.2	999.9	999.
2.2	19.5	1457.5	850.0	15.0	9.0	146.7	19.5	2.1	19.3	301.8	325.2	8.6	67.6	2.1	3.
3.2	21.9	1710.9	825.0	13.8	4.1	189.6	20.4	3.4	20.1	303.2	323.1	7.2	59.6	3.2	5.
4.1	24.2	1969.4	800.0	12.9	5.2	190.4	21.1	3.8	20.7	304.9	324.4	7.0	56.6	4.4	7.
5.0	26.4	2234.3	775.0	10.2	5.3	189.0	20.4	3.4	20.1	304.7	325.0	7.2	71.6	5.5	7.
5.9	29.0	2507.2	750.0	7.9	5.8	188.3	21.7	3.1	21.5	305.0	326.7	7.8	87.4	6.6	7.
6.9	31.4	2784.5	725.0	5.7	5.1	195.8	19.6	5.3	18.6	305.8	327.1	7.6	95.7	8.0	8.
7.9	34.3	3077.2	700.0	3.8	2.9	206.9	18.3	9.3	16.3	306.7	325.8	6.8	93.8	8.9	10.
9.7	36.5	3368.5	675.0	2.0	1.2	211.0	16.9	8.7	14.4	307.9	325.6	6.2	94.9	9.3	11.
9.8	39.1	3672.4	650.0	-0.0	-0.8	209.1	15.1	7.6	14.2	309.5	325.0	5.6	94.6	10.7	13.
11.0	41.9	3984.5	625.0	-1.8	-2.5	201.4	15.9	5.8	14.8	310.4	325.3	5.1	94.3	11.8	14.
12.1	44.6	4311.0	600.0	-3.7	-4.6	199.6	17.0	5.7	16.0	311.9	325.4	4.6	93.4	12.9	15.
13.2	47.4	4646.5	575.0	-5.5	-6.4	197.7	15.3	4.7	14.6	313.5	325.8	4.1	93.6	14.0	15.
14.4	50.3	4994.4	550.0	-7.5	-8.4	194.3	15.5	3.8	15.0	315.2	326.4	3.7	93.0	15.2	15.
15.7	53.2	5356.0	525.0	-8.7	-9.7	193.0	12.3	2.8	12.0	317.9	328.7	3.5	92.6	16.1	15.
16.9	55.7	5733.4	500.0	-11.3	-12.4	194.3	11.2	2.8	10.9	319.3	328.6	3.0	91.6	16.6	15.
18.2	9.4	6125.8	475.0	-13.9	-15.2	191.4	12.4	2.4	12.1	320.4	328.6	2.5	89.4	17.9	15.
19.4	62.4	6536.9	450.0	-16.5	-18.2	189.0	13.6	0.7	13.6	322.5	329.1	2.0	88.4	19.0	14.
21.3	64.0	6961.0	425.0	-19.5	-22.1	187.9	14.3	2.5	14.1	323.9	328.9	1.5	80.3	20.5	14.
22.9	69.4	7403.9	400.0	-22.6	-25.6	189.9	19.4	3.7	19.1	325.5	329.6	1.2	76.6	22.3	13.
24.5	73.1	7860.7	375.0	-26.0	-29.1	187.6	19.5	2.6	19.3	327.1	330.3	0.9	75.2	24.1	13.
25.9	76.9	8338.6	350.0	-29.9	-33.0	187.3	20.1	2.6	19.9	328.4	330.8	0.7	74.1	25.8	13.
27.2	80.8	8900.2	325.0	-32.9	-37.6	190.0	20.5	3.6	20.3	329.9	331.5	0.5	69.0	27.4	12.
28.7	85.0	9455.3	300.0	-38.7	-42.6	196.7	24.0	6.9	23.0	330.8	331.8	0.3	66.2	29.4	12.
30.3	89.4	10064.8	275.0	-43.9	99.9	204.1	25.5	10.8	24.2	331.7	999.9	99.9	999.9	31.7	13.
32.0	94.0	10679.5	250.0	-49.2	99.9	209.2	29.3	14.3	25.6	332.9	999.9	99.9	999.9	34.7	14.
34.0	99.0	11349.1	225.0	-54.8	99.9	209.8	31.0	14.9	27.2	333.6	999.9	99.9	999.9	37.8	16.
35.2	104.4	12107.5	200.0	-59.9	99.9	199.7	32.1	12.5	36.0	334.0	999.9	99.9	999.9	42.4	18.
38.8	110.3	12939.8	175.0	-65.2	99.9	207.6	32.8	15.2	29.1	342.3	999.9	99.9	999.9	48.6	17.
41.6	116.9	13900.8	150.0	-64.0	99.9	214.0	15.2	9.4	12.0	373.6	999.9	99.9	999.9	51.4	19.
43.7	123.3	15034.9	125.0	-61.1	99.9	218.0	13.1	9.0	10.3	394.4	999.9	99.9	999.9	54.6	18.
50.1	131.3	16427.1	100.0	-61.3	99.9	239.1	5.4	5.5	3.7	409.2	999.9	99.9	999.9	56.9	20.
55.9	139.7	18287.1	75.0	-63.3	99.9	265.9	2.5	2.5	0.6	440.3	999.9	99.9	999.9	57.4	21.
66.4	149.7	20770.0	50.0	-58.5	99.9	47.9	4.7	-3.5	-3.1	504.9	999.9	99.9	999.9	56.2	20.
76.6	159.0	25176.4	25.0	-52.7	99.9	115.8	8.4	-7.6	3.7	633.2	999.9	99.9	999.9	53.7	15.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. [illegible]
[illegible] KANSAS

29 MAY 19[illegible]
2300 GMT

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	WEIGHT GMS	RMKS MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	PCT T DG K	P PCT T DG K	MR RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.4	2[illegible]9.0	679.4	27.4	17.9	110.0	5.7	-5.9	1.4	302.9	338.8	13.4	55.0	0.0	0.
99.0	99.0	99.0	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	9.2	9380.9	975.8	28.4*	18.7	320.0	10.2	7.4	-7.9	303.7	341.7	14.1	55.7	0.6	287.
0.9	10.2	9372.3	950.0	27.6	19.3	30.2	6.0	-3.0	-5.2	304.2	342.5	14.1	66.6	0.8	240.
1.9	12.1	9[illegible]7.9	925.0	24.8	15.2	166.0	9.1	-8.0	7.6	300.7	339.1	12.7	58.9	0.7	274.
2.8	14.1	1007.9	903.0	22.7	15.8	141.9	9.9	-5.9	9.9	304.9	336.4	12.7	65.3	1.0	295.
3.8	15.7	1[illegible]9.4	875.0	19.3	14.6	140.0	10.0	-6.4	7.7	303.9	336.6	12.1	74.2	1.6	305.
4.5	18.5	1401.5	850.0	17.0	14.3	142.1	9.0	-5.5	7.1	304.9	337.0	12.2	84.3	2.1	308.
4.9	20.4	1[illegible]4.1	825.0	15.0	13.0	150.7	8.6	-4.2	7.5	304.4	335.8	11.5	87.6	2.6	312.
6.4	22.9	7014.3	800.0	13.0	10.7	157.7	9.2	-3.5	8.5	305.3	337.0	10.2	86.1	3.0	315.
7.4	25.2	2[illegible]2.0	775.0	10.4	8.4	164.2	9.7	-2.7	9.3	305.2	338.1	9.0	86.2	3.5	316.
8.6	27.5	3[illegible].0	750.0	8.4	5.6	169.4	10.4	-1.9	10.5	305.3	337.4	7.7	81.4	4.2	324.
9.7	29.8	2875.8	725.0	7.3	-0.8	170.2	11.0	-1.9	10.8	307.5	321.9	5.0	58.1	4.9	329.
10.9	32.1	7126.0	700.0	5.4	-3.7	170.6	10.9	-1.8	10.7	309.4	320.7	4.2	52.6	5.5	331.
12.0	34.9	7[illegible]9.1	675.0	3.4	-7.8	175.0	10.5	-0.9	10.5	309.6	320.9	4.3	62.3	6.2	333.
13.2	37.2	3[illegible].7	650.0	1.0	-10.0	177.2	10.6	-0.5	10.6	310.1	318.5	2.8	43.6	6.9	336.
14.5	40.0	4039.0	625.0	-1.0	-16.0	169.7	11.3	-2.0	11.1	311.3	316.8	1.8	26.6	7.7	338.
15.9	42.6	4[illegible].7	600.0	-1.3	-24.4	165.0	10.7	-2.4	10.3	314.7	317.6	0.9	15.1	9.6	339.
17.1	45.9	4787.2	575.0	-4.0	-14.0	175.2	11.2	-0.9	11.1	315.3	320.5	1.6	22.8	9.2	338.
18.5	49.1	4[illegible].2	550.0	-6.9	-13.4	158.5	11.8	1.0	11.4	315.9	323.6	2.5	29.9	10.3	342.
19.8	51.0	5413.8	525.0	-8.0	-11.5	206.7	13.5	6.0	12.1	319.8	328.2	3.8	35.8	11.1	345.
21.1	54.1	5792.2	500.0	-10.0	-13.9	204.4	13.0	5.6	11.9	323.9	329.1	2.8	23.8	11.9	349.
22.6	57.1	6186.6	475.0	-12.3	-16.8	202.4	10.8	4.1	10.0	322.7	329.7	2.2	69.1	12.7	351.
24.2	60.4	6588.8	450.0	-14.3	-19.1	191.7	11.4	2.6	11.4	324.7	330.8	1.6	65.5	13.7	353.
25.8	63.9	7024.6	425.0	-17.9	-23.4	190.4	12.4	2.3	12.3	326.1	330.6	1.4	61.8	14.8	354.
27.4	67.1	7478.4	400.0	-21.9	-26.9	195.5	12.6	3.3	11.9	327.5	331.1	1.1	56.7	16.0	356.
29.2	70.7	7952.0	375.0	-24.6	-31.6	194.2	12.8	2.9	11.6	329.8	331.3	0.7	52.1	17.2	357.
31.1	74.4	8451.4	350.0	-28.3	-35.5	192.9	12.9	2.9	12.5	330.7	332.5	0.5	47.7	18.7	358.
33.4	79.5	8979.0	325.0	-32.5	-39.7	187.5	10.5	1.4	10.4	331.9	333.3	0.4	48.1	20.2	360.
34.8	82.4	9534.5	300.0	-37.8	-45.6	193.9	11.1	2.4	10.8	333.1	334.1	0.2	46.1	21.7	0.
39.2	86.4	10137.8	275.0	-42.0	99.9	202.5	11.7	4.5	10.4	334.4	999.9	99.9	999.9	23.3	1.
43.5	91.4	10778.1	250.0	-47.1	99.9	214.4	10.7	6.1	8.8	336.0	999.9	99.9	999.9	24.6	3.
47.9	95.9	11459.3	225.0	-53.5	99.9	219.1	12.0	8.2	10.1	336.5	999.9	99.9	999.9	25.9	5.
49.4	101.4	12204.2	203.3	-60.0	99.9	212.4	12.5	7.2	11.4	337.8	999.9	99.9	999.9	27.7	7.
47.9	107.4	13024.5	175.0	-66.7	99.9	214.1	13.4	7.5	11.0	340.0	999.9	99.9	999.9	29.5	9.
51.4	114.1	13949.8	150.0	-63.4	99.9	220.0	12.1	6.7	8.4	340.9	999.9	99.9	999.9	32.1	12.
55.8	121.7	15049.4	125.0	-81.9	99.9	239.2	5.5	4.8	2.8	343.0	999.9	99.9	999.9	33.7	14.
61.4	143.0	16498.7	100.0	-89.7	99.9	999.9	99.9	99.9	99.9	412.4	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	75.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	50.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. [illegible]
PEORIA, ILLINOIS

26 MAY 1977
2300 GMT

157 23. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.5	200.0	989.5	31.7	12.5	50.0	1.2	-1.5	-2.1	305.2	331.5	9.3	31.0	0.0	0.
99.9	99.9	99.9	1003.0	99.0	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9	999.
0.6	9.8	333.2	975.0	30.4	7.8	128.1	2.0	-1.5	1.2	305.4	325.1	6.8	24.4	0.4	237.
1.5	11.0	512.8	950.0	27.7	6.4	77.5	5.1	-5.0	-1.1	305.1	323.2	6.4	25.9	0.5	245.
2.4	13.1	737.7	925.0	25.4	6.6	75.6	6.7	-6.5	-1.7	305.3	324.0	6.6	30.0	0.8	249.
3.2	15.6	1017.5	900.0	23.1	7.6	81.8	6.9	-6.9	-1.0	305.7	325.9	7.3	36.9	1.2	251.
4.1	17.9	1281.9	875.0	20.7	7.7	84.6	6.4	-6.4	-0.6	305.3	326.5	7.6	42.9	1.5	255.
5.0	20.7	1531.9	850.0	18.6	7.9	81.5	6.3	-6.2	-0.9	305.6	327.7	7.6	46.9	1.9	256.
6.1	22.7	1787.0	825.0	16.1	6.9	79.9	6.7	-6.6	-1.3	305.5	326.9	7.6	54.2	2.3	257.
7.1	25.2	2047.8	800.0	13.6	6.0	79.2	7.2	-7.1	-1.3	305.7	326.4	7.4	60.0	2.7	257.
8.3	27.6	2314.6	775.0	11.1	5.6	82.1	6.9	-6.7	-0.9	305.4	326.5	7.4	68.8	3.2	258.
9.5	30.2	2587.6	750.0	8.6	4.9	85.2	7.1	-7.1	-0.6	305.9	326.3	7.3	77.8	3.7	258.
10.5	32.9	2867.5	725.0	6.4	3.9	90.4	6.3	-6.3	0.0	305.5	325.0	6.5	76.2	4.1	259.
11.6	35.5	3155.3	700.0	5.3	-3.0	109.0	4.7	-4.5	1.5	309.4	321.2	4.4	54.6	4.5	261.
12.6	38.1	3451.6	675.0	3.5	-5.9	128.3	4.2	-3.3	2.6	309.6	320.4	3.6	50.0	4.7	263.
13.7	40.7	3756.9	650.0	1.2	-8.2	134.0	3.9	-2.8	2.7	310.3	319.8	3.2	49.4	4.8	265.
14.9	43.5	4071.3	625.0	-1.0	-11.8	132.8	2.5	-1.8	1.7	311.4	319.0	2.5	43.6	5.0	267.
16.2	46.4	4395.7	600.0	-2.9	-19.7	118.0	4.0	-4.0	2.2	312.7	317.1	1.4	27.1	5.2	268.
17.6	49.4	4732.8	575.0	-3.4	-26.0	120.3	6.6	-5.7	3.3	316.0	318.5	0.7	14.1	5.7	271.
19.0	52.3	5082.6	550.0	-5.5	-29.8	129.5	5.7	-4.4	3.6	317.6	319.6	0.6	12.8	6.1	273.
20.4	55.3	5447.1	525.0	-6.0	-29.6	151.4	5.3	-2.6	4.6	321.2	323.3	0.6	13.4	6.4	276.
21.9	58.4	5827.0	500.0	-9.1	-30.5	145.6	6.1	-3.4	5.0	321.9	324.0	0.6	15.6	6.7	280.
23.3	61.7	6221.5	475.0	-13.4	-33.9	136.7	6.4	-4.4	4.6	322.5	324.2	0.5	14.6	7.1	283.
24.7	65.0	6632.2	450.0	-15.5	-36.0	127.2	6.6	-5.1	4.2	323.7	325.1	0.4	15.2	7.6	285.
26.4	68.3	7060.9	425.0	-18.7	-38.5	126.4	5.7	-3.9	4.1	325.0	326.1	0.3	15.5	8.2	286.
28.0	71.7	7509.0	400.0	-22.2	-39.3	140.6	4.8	-2.5	4.2	326.1	327.2	0.3	19.2	8.6	289.
29.9	75.5	7980.4	375.0	-26.0	-39.6	174.3	2.7	-0.2	2.7	327.2	329.5	0.7	43.8	8.9	291.
31.7	79.4	8476.6	350.0	-29.6	-37.2	65.1	0.9	-0.9	-0.4	328.9	330.4	0.4	47.5	8.9	291.
33.5	83.3	9010.9	325.0	-33.5	-42.4	106.6	0.6	-0.6	0.2	330.6	331.6	0.3	39.8	8.9	291.
35.3	87.3	9556.9	300.0	-38.9	-47.1	202.4	0.7	0.3	0.6	330.6	331.3	0.2	41.1	8.9	291.
37.4	91.9	10144.1	275.0	-43.7	99.9	127.1	2.4	-2.3	1.3	332.0	999.9	99.9	999.9	9.1	291.
40.1	96.7	10781.9	250.0	-48.5	99.9	185.7	2.3	0.2	2.3	334.0	999.9	99.9	999.9	9.4	292.
42.6	101.2	11464.8	225.0	-56.2	99.9	250.6	2.8	2.7	0.6	335.4	999.9	99.9	999.9	9.3	294.
44.9	106.6	12213.0	200.0	-59.7	99.9	320.4	6.1	3.9	-4.7	338.3	999.9	99.9	999.9	8.8	293.
47.9	112.3	13041.9	175.0	-62.6	99.9	315.2	5.2	3.6	-3.7	346.6	999.9	99.9	999.9	7.8	290.
51.3	119.9	13991.2	150.0	-62.5	99.9	328.9	2.6	1.4	-2.2	362.5	999.9	99.9	999.9	7.2	286.
55.4	126.0	15129.9	125.0	-59.1	99.9	291.1	1.2	1.1	-0.4	399.0	999.9	99.9	999.9	7.2	294.
60.2	134.3	16517.2	100.0	-61.0	99.9	324.6	1.7	1.0	-1.4	410.0	999.9	99.9	999.9	7.0	285.
66.5	142.7	18300.6	75.0	-51.6	99.9	354.8	2.4	0.2	-2.3	443.7	999.9	99.9	999.9	6.9	280.
75.8	152.3	20847.9	50.0	-57.6	99.9	46.0	5.7	-4.1	-3.9	507.8	999.9	99.9	999.9	7.6	267.
99.0	169.0	25707.4	25.0	-51.2	99.9	79.5	10.7	-10.6	-1.9	637.5	999.9	99.9	999.9	14.5	256.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
+ BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 553
OMAHA, NEBRASKA

27 MAY 1977
12 GMT

157 13. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	WEIGHT GPM	PRES MM	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	0.0	400.0	965.3	18.4	17.3	150.3	2.6	-1.3	2.3	294.9	328.9	13.0	91.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.6	19.2	537.8	950.0	19.7	15.0	169.9	7.5	-1.3	7.4	295.1	326.1	11.4	79.3	0.3	346.
1.6	12.4	749.1	935.0	19.1	12.5	176.2	9.8	-0.7	9.9	298.9	325.5	9.9	65.8	0.9	351.
2.5	14.8	1007.8	900.0	17.4	12.1	177.0	9.4	-1.4	9.7	299.3	326.6	9.9	69.1	1.9	353.
3.6	17.0	1247.4	875.0	16.4	11.1	183.4	9.1	-0.6	9.7	301.0	326.9	9.5	70.3	1.9	351.
4.9	19.5	1490.5	850.0	15.1	9.0	189.5	11.4	-2.1	11.2	301.9	325.2	8.5	66.6	2.6	349.
5.9	21.9	1743.7	825.0	14.0	8.2	191.7	11.2	0.4	13.2	303.3	326.7	8.3	68.1	3.5	351.
7.1	24.3	2002.4	800.0	11.9	7.4	195.0	15.2	1.4	15.1	307.9	326.2	8.1	74.2	4.4	354.
8.4	26.6	2247.4	775.0	9.4	7.0	195.2	15.7	1.4	15.6	403.9	327.9	8.7	80.2	5.6	357.
9.7	29.2	2519.3	750.0	7.2	5.5	179.0	14.2	-3.0	15.2	304.4	325.7	7.6	65.0	6.9	358.
11.1	31.9	2817.5	725.0	5.1	1.7	180.1	15.8	0.0	14.8	305.0	322.1	6.0	76.1	8.3	356.
12.5	34.7	3107.1	700.0	2.9	0.4	180.1	15.0	0.0	13.0	305.5	321.6	5.6	84.3	9.4	358.
13.7	37.2	3397.1	675.0	1.1	-0.3	177.6	15.8	-1.9	15.7	306.9	322.9	5.8	90.7	11.0	356.
15.2	40.1	3700.8	650.0	-0.1	-1.3	171.3	13.4	-2.0	13.2	306.8	324.4	5.4	91.9	12.2	358.
16.9	43.9	4014.9	625.0	-1.7	-2.4	180.5	13.9	0.1	13.9	310.9	326.0	5.2	92.6	13.5	357.
18.7	45.5	4340.0	600.0	-3.6	-4.2	182.7	15.9	3.5	15.5	312.7	326.6	4.7	91.8	14.8	358.
19.9	48.8	4674.8	575.0	-4.8	-6.0	178.7	13.9	3.1	13.6	314.4	327.1	4.2	90.9	16.2	360.
21.7	51.6	5024.7	550.0	-6.2	-7.6	185.0	13.7	1.2	13.7	316.9	328.7	3.9	85.8	17.4	0.
23.9	54.9	5389.8	525.0	-8.1	-8.6	182.4	14.0	0.6	14.0	319.7	329.6	3.5	88.5	18.6	0.
26.1	57.9	5757.7	500.0	-10.1	-12.0	180.6	13.9	0.1	13.9	320.5	330.0	3.0	87.2	19.9	0.
25.9	61.3	6161.5	475.0	-12.6	-14.7	179.1	11.4	-0.0	11.4	322.3	330.5	2.6	84.6	21.1	0.
27.4	64.9	6572.4	450.3	-15.1	-17.8	177.1	13.5	-0.7	13.5	324.3	330.8	2.1	81.3	22.3	0.
29.1	69.1	7009.0	425.3	-18.4	-21.2	178.2	15.1	-1.0	15.1	325.4	330.8	1.6	78.8	23.8	0.
31.1	71.8	7451.9	400.0	-21.6	-24.7	179.7	13.9	-1.0	13.7	327.0	331.3	1.3	76.0	25.3	360.
32.8	75.7	7924.4	375.0	-25.1	-28.7	180.4	10.9	0.1	10.9	328.4	331.7	0.9	71.8	26.6	359.
34.8	79.9	8421.8	350.0	-29.5	-33.5	182.7	13.9	0.7	13.9	329.1	331.3	0.6	67.7	27.9	360.
36.6	83.9	8947.1	325.0	-33.6	-38.3	180.9	15.7	0.1	15.7	330.4	332.0	0.4	62.2	29.5	360.
38.7	88.2	9501.8	300.0	-38.3	-43.9	177.4	12.0	-0.4	12.0	331.5	999.9	99.9	999.9	31.2	360.
40.7	92.9	10086.5	275.0	-43.2	99.9	177.8	15.1	-0.6	15.1	332.5	999.9	99.9	999.9	33.0	360.
42.8	97.5	10701.4	250.3	-48.9	99.9	144.2	14.1	1.3	13.0	333.9	999.9	99.9	999.9	35.0	350.
45.0	102.4	11347.8	225.0	-54.4	99.9	194.3	14.4	3.5	14.3	335.2	999.9	99.9	999.9	37.2	0.
47.3	109.5	12158.3	200.0	-61.0	99.9	197.0	17.8	5.2	17.0	336.2	999.9	99.9	999.9	39.2	1.
49.8	114.5	12979.2	175.0	-63.1	99.9	211.2	14.5	9.6	15.9	335.9	999.9	99.9	999.9	41.7	3.
51.2	121.0	13996.6	150.0	-60.9	99.9	224.4	13.9	9.5	9.8	365.3	999.9	99.9	999.9	45.0	8.
57.6	129.3	15062.6	125.3	-60.4	99.9	209.1	5.9	2.8	5.2	385.7	999.9	99.9	999.9	46.5	7.
53.3	135.7	14449.4	100.0	-61.5	99.9	160.9	3.5	-0.9	2.5	408.7	999.9	99.9	999.9	47.2	7.
71.5	144.3	18934.7	75.0	-62.7	99.9	78.7	3.8	-3.6	-0.7	442.4	999.9	99.9	999.9	47.2	7.
93.3	152.7	20774.8	50.0	-57.2	99.9	77.1	6.5	-6.3	-1.4	509.7	999.9	99.9	999.9	46.7	3.
105.3	161.7	25217.3	25.0	-52.2	99.9	81.0	11.2	-11.1	-1.7	535.1	999.9	99.9	999.9	43.5	349.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. [illegible]
NORTH PLATTE, NEBRASKA

26 MAY [illegible]
2333 GMT

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

154 12. 1

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	19.5	869.0	909.9	21.1	14.1	193.0	7.0	-1.9	[illegible]	302.3	336.7	12.3	73.6	0.0	0.
99.9	99.0	99.0	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.0	999.9	999.
99.9	99.9	99.0	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.0	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	14.8	983.5	900.0	22.3	15.7	184.7	2.5	3.7	-2.8	304.5	340.9	13.4	70.5	0.3	326.
1.2	15.8	1187.2	875.0	19.7	15.8	269.9	7.1	7.2	0.8	304.2	338.6	12.7	83.2	0.8	327.
2.1	18.7	1394.8	850.0	16.9	14.7	150.9	13.4	-6.5	11.7	303.9	337.9	12.5	84.9	1.5	327.
3.0	20.8	1601.9	825.0	14.8	14.1	150.0	12.3	-4.5	12.0	304.0	337.6	12.3	95.9	2.2	328.
4.1	23.7	1851.7	800.0	12.1	11.7	144.4	11.0	-2.8	11.6	304.1	337.9	10.9	97.2	3.0	333.
4.9	25.6	2017.8	775.0	10.7	10.1	144.0	13.5	-2.8	13.2	305.4	339.6	10.3	97.5	3.6	336.
5.8	28.0	2430.5	750.0	10.0	9.1	171.9	13.1	-1.5	13.0	307.4	325.7	8.4	82.4	4.4	348.
6.9	30.6	2772.1	725.0	9.1	-6.7	177.3	12.0	-0.6	12.0	309.5	319.1	3.2	32.2	5.1	341.
9.1	33.2	3041.5	700.9	6.6	-4.2	140.4	13.7	0.2	13.7	309.8	318.7	3.0	33.8	5.9	343.
9.0	35.7	3339.0	675.0	4.0	-9.0	185.0	14.7	1.3	14.7	310.2	318.9	2.3	28.0	6.7	346.
10.1	38.3	3666.7	650.0	1.4	-8.5	190.5	14.5	2.6	14.2	310.8	320.1	2.1	46.6	7.6	348.
11.4	41.0	3979.2	625.0	-1.4	-8.5	195.1	13.7	3.6	13.3	310.9	320.6	.2	88.2	8.6	351.
12.4	43.9	4303.7	600.3	-4.2	-9.9	194.7	13.6	4.3	12.9	311.3	321.1	3.3	69.6	9.7	354.
14.4	46.9	4637.6	575.0	-6.2	-17.5	199.2	14.2	4.7	13.4	312.7	325.0	1.7	40.1	10.9	357.
15.0	50.0	4981.9	550.0	-6.7	-26.2	197.0	15.3	5.4	15.0	316.7	319.4	0.8	18.8	12.2	359.
17.4	53.0	5287.1	525.0	-8.4	-40.2	196.8	14.6	5.7	14.1	318.1	318.8	0.2	5.6	13.4	1.
19.8	56.4	5726.4	500.3	-10.1	-38.2	191.0	15.1	2.9	14.8	320.5	321.5	0.3	7.5	14.8	2.
20.1	59.0	6114.6	475.0	-13.5	-27.7	197.8	17.0	5.2	16.1	321.1	322.4	0.3	10.8	15.9	3.
21.7	62.4	6598.9	450.0	-16.7	-27.7	209.9	15.0	4.9	15.7	322.3	323.4	0.3	14.3	17.3	5.
23.1	65.9	6952.3	425.0	-19.1	-31.7	208.6	21.7	10.4	19.0	324.5	326.7	0.6	21.5	19.0	7.
25.0	69.6	7403.9	400.0	-23.0	-30.2	202.8	22.1	8.5	20.4	325.1	327.8	0.8	51.6	21.3	9.
24.9	73.2	7870.1	375.0	-26.8	-33.3	198.5	24.3	7.7	23.1	325.1	328.2	0.6	54.1	23.6	10.
28.8	77.2	8366.3	350.0	-30.9	-36.3	201.1	23.6	8.5	22.1	327.1	326.8	0.5	55.4	26.5	11.
30.7	81.2	8885.9	325.9	-34.9	-43.5	200.4	25.6	9.5	23.9	328.6	329.5	0.2	40.7	29.3	12.
32.9	85.5	9433.9	300.0	-39.4	99.9	204.5	30.0	12.7	27.8	330.8	999.9	99.9	999.9	32.7	13.
35.1	90.2	10026.1	275.0	-44.5	99.9	197.5	28.7	8.7	27.4	330.7	999.9	99.9	999.9	36.9	14.
37.2	95.1	10660.5	250.0	-49.6	99.9	193.7	25.7	5.9	25.0	332.4	999.9	99.9	999.9	40.3	14.
39.6	100.2	11338.1	225.0	-53.9	99.9	194.6	32.6	10.4	30.9	336.0	999.9	99.9	999.9	44.3	14.
41.9	105.8	12071.5	200.3	-59.9	99.9	203.7	34.3	12.0	31.8	339.4	999.9	99.9	999.9	49.1	15.
44.9	111.9	12877.9	175.0	-61.7	99.9	209.7	29.4	14.7	25.7	343.1	999.9	99.9	999.9	55.3	16.
48.2	118.7	13783.9	150.0	-59.7	99.9	201.1	20.4	7.4	19.0	349.6	999.9	99.9	999.9	59.7	17.
52.0	126.3	15031.4	125.0	-58.1	99.9	195.3	17.6	6.7	17.0	389.8	999.9	99.9	999.9	63.9	17.
56.7	135.0	16483.9	100.0	-57.4	99.9	196.3	7.4	0.6	7.3	415.5	999.9	99.9	999.9	66.7	17.
62.4	143.7	18227.4	75.0	-59.4	99.9	141.8	7.6	-4.7	5.9	447.5	999.9	99.9	999.9	69.4	16.
70.3	153.3	20791.7	50.0	-57.7	99.9	42.1	5.2	-5.2	-0.7	507.5	999.9	99.9	999.9	68.9	14.
81.5	163.3	24240.3	25.0	-51.0	99.9	999.9	999.9	99.9	99.9	638.6	999.9	99.9	999.9	65.5	10.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 654
HURON, SOUTH DAKOTA

25 MAY 1977
2300 GMT

149 17. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
3.0	9.6	393.0	961.7	23.3	13.8	170.0	9.8	-1.7	9.7	299.8	327.6	10.4	55.0	0.0	0.
99.9	99.9	99.9	1030.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	13.5	699.1	950.0	22.7	14.2	354.9	5.9	0.5	-5.9	300.2	329.2	10.9	68.7	1.2	349.
0.9	12.9	730.7	925.0	20.5	13.3	264.3	5.0	5.0	0.5	300.3	328.4	10.4	63.3	1.1	348.
1.8	14.9	965.8	900.0	18.0	12.7	187.9	14.1	1.9	14.0	300.1	327.9	10.3	71.1	1.4	352.
2.2	16.9	1208.0	875.0	16.7	13.0	196.1	17.9	5.0	17.2	301.2	330.5	10.9	78.9	2.2	359.
2.9	19.3	1455.8	850.0	14.0	12.3	201.4	17.5	6.4	16.3	302.9	331.9	10.7	78.4	3.0	5.
3.7	21.5	1709.7	825.0	14.6	10.1	200.7	16.6	5.9	15.6	304.1	330.1	9.5	74.2	3.8	8.
4.4	23.9	1969.6	800.0	13.2	6.2	201.1	14.3	5.1	13.4	305.2	326.0	8.6	71.9	4.4	10.
5.2	26.0	2234.0	775.0	11.4	6.1	204.5	13.3	5.5	12.1	306.0	327.5	7.6	65.8	5.0	12.
5.9	28.5	2503.4	750.0	9.5	1.4	204.0	14.2	5.8	13.0	306.9	323.2	5.7	57.0	5.6	13.
6.7	31.0	2780.2	725.0	7.9	-3.4	200.8	15.7	5.6	14.7	308.1	320.2	4.1	44.7	6.2	14.
7.5	33.6	3060.3	700.0	6.2	-7.4	200.1	14.6	5.0	13.7	309.4	318.8	3.2	37.0	7.1	15.
8.4	36.0	3344.1	675.0	4.2	-9.8	199.8	13.9	4.7	13.1	310.4	319.4	3.0	38.9	7.8	15.
9.3	38.7	3631.8	650.0	1.5	-10.0	200.9	12.1	4.3	11.3	310.7	319.0	2.7	41.9	8.5	16.
10.1	41.1	3904.6	625.0	-0.7	-12.7	197.8	12.4	3.8	11.8	311.7	318.8	2.3	39.5	9.1	16.
11.1	43.8	4201.4	600.0	-2.7	-13.2	190.0	11.8	2.1	11.7	313.0	320.0	2.2	43.7	9.7	16.
12.0	46.9	4519.2	575.0	-3.8	-10.6	134.7	13.7	1.1	13.7	315.6	324.7	3.0	59.0	10.4	15.
12.9	49.5	4838.5	550.0	-5.3	-12.3	189.2	14.9	2.4	14.7	317.9	326.3	2.7	57.6	11.2	14.
14.0	52.5	5172.5	525.0	-7.8	-14.2	197.4	15.5	4.6	14.8	319.1	326.7	2.4	56.6	12.2	15.
15.1	55.5	5510.5	500.0	-10.1	-15.2	198.4	16.4	5.2	15.5	320.5	327.9	2.3	67.4	13.2	15.
16.2	58.6	5863.4	475.0	-13.4	-16.5	194.6	16.3	4.1	15.8	321.4	328.5	2.2	77.7	14.3	15.
17.3	61.9	6229.9	450.0	-16.3	-19.1	190.2	16.3	2.9	16.0	322.7	328.8	1.9	79.2	15.4	15.
18.4	65.1	6591.0	425.0	-18.9	-22.6	199.4	15.8	2.3	15.6	324.2	329.6	1.5	72.7	16.4	14.
19.7	68.5	7000.4	400.0	-22.0	-27.1	198.4	17.4	2.5	17.2	326.4	329.9	1.0	62.7	17.7	14.
21.0	71.9	7403.1	375.0	-25.6	-31.2	186.2	20.3	2.2	20.2	327.7	330.3	0.7	59.0	19.2	14.
22.2	75.4	7820.2	350.0	-29.6	-34.5	183.3	22.9	1.3	22.8	329.2	331.2	0.6	60.4	20.7	13.
23.4	79.5	8277.9	325.0	-33.3	-38.9	182.5	24.9	1.1	24.8	330.8	332.3	0.4	56.4	22.5	12.
25.0	83.3	8683.4	300.0	-35.9	-44.4	180.9	27.9	0.4	27.9	334.8	335.7	0.2	35.7	24.9	11.
26.4	87.5	10077.7	275.0	-42.9	99.9	176.9	29.9	-1.4	26.8	333.1	999.9	99.9	999.9	27.7	10.
28.4	91.5	10712.2	250.0	-48.7	99.9	180.7	27.4	0.4	27.4	333.6	999.9	99.9	999.9	30.4	9.
30.3	96.5	11395.3	225.0	-54.4	99.9	187.0	30.7	3.7	30.5	334.6	999.9	99.9	999.9	33.6	8.
32.7	101.4	12137.3	200.0	-60.7	99.9	195.8	30.8	8.4	29.7	335.7	999.9	99.9	999.9	37.4	8.
35.4	107.0	12944.9	175.0	-60.3	99.9	191.4	21.5	4.3	21.1	350.5	999.9	99.9	999.9	40.8	9.
37.0	113.3	13921.6	150.0	-58.0	99.9	194.2	16.6	4.1	16.1	370.2	999.9	99.9	999.9	43.7	9.
43.6	119.7	15075.7	125.0	-57.3	99.9	190.7	9.3	1.7	9.1	391.3	999.9	99.9	999.9	46.3	10.
44.4	127.3	16492.2	100.0	-58.4	99.9	180.0	6.4	0.0	6.4	414.1	999.9	99.9	999.9	48.3	10.
49.5	134.0	18241.6	75.0	-60.6	99.9	132.8	4.7	-3.4	3.2	445.8	999.9	99.9	999.9	49.3	9.
56.4	144.5	20444.6	50.0	-55.7	99.9	113.2	5.3	-5.8	2.5	512.4	999.9	99.9	999.9	50.1	7.
57.2	156.9	25289.3	25.0	-50.5	99.9	69.3	12.1	-11.4	-4.3	639.8	999.9	99.9	999.9	48.1	2.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 662
RAPID CITY, SOUTH DAKOTA

26 MAY 1977
2305 GMT

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

146 34. 1

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.7	946.0	996.4	24.4	6.6	170.0	4.3	-1.4	8.2	307.0	326.5	6.9	32.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	97?.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	900.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.8	17.7	1178.9	875.0	21.1	3.0	253.6	3.4	3.2	1.0	305.7	321.3	5.5	20.3	0.5	186.
1.8	20.3	1425.5	850.0	19.0	2.4	187.0	7.5	0.4	7.5	306.0	321.4	5.4	33.2	0.9	359.
2.8	22.5	1680.8	825.0	16.6	1.1	184.4	7.6	0.6	7.6	306.2	320.7	5.0	35.0	1.4	1.
3.7	25.1	1931.4	800.0	14.1	0.2	189.9	6.8	1.0	6.7	306.2	320.3	4.9	38.8	1.8	2.
4.8	27.5	2207.2	775.0	11.4	-1.2	201.4	6.2	2.3	5.8	306.1	319.2	4.5	41.6	2.2	4.
5.8	30.1	2450.5	750.0	9.1	-2.3	214.8	5.8	3.3	4.8	306.4	319.0	4.3	44.8	2.7	7.
7.2	32.9	2740.5	725.0	6.2	-4.4	232.6	5.2	4.1	3.1	306.3	317.4	3.8	46.4	2.9	12.
8.3	35.5	3047.4	700.0	4.1	-5.3	249.8	5.3	5.5	2.0	307.0	317.8	3.7	50.3	3.2	17.
9.4	38.3	3341.7	675.0	1.1	-6.4	259.*	7.0	6.6	2.3	306.9	317.3	3.5	57.1	3.4	24.
10.7	40.9	3644.0	650.0	-1.5	-7.2	260.7	8.6	7.5	4.2	307.2	317.4	3.4	65.5	3.8	29.
11.8	43.9	3965.4	625.0	-3.7	-9.5	270.2	10.8	9.3	6.9	308.2	317.1	3.0	64.1	4.4	32.
12.8	46.9	4274.4	600.0	-6.7	-10.9	271.0	12.5	8.3	9.5	308.4	316.7	2.9	71.6	5.2	34.
14.2	50.0	4607.6	575.0	-9.4	-16.8	270.7	14.8	7.5	12.7	310.1	315.6	1.8	50.7	6.2	35.
15.5	53.0	4951.4	550.0	-10.8	-18.5	269.9	14.7	5.9	13.4	311.3	316.4	1.6	52.6	7.4	33.
16.9	56.0	5309.1	525.0	-12.9	-21.5	269.7	15.1	5.8	13.9	313.0	317.1	1.3	48.1	8.6	32.
18.1	59.4	5679.2	500.0	-15.5	-29.3	270.6	14.8	5.2	13.9	314.2	316.4	0.7	29.2	9.7	31.
19.4	62.3	6043.0	475.0	-18.3	-27.7	272.6	13.7	5.3	12.7	315.3	318.1	0.8	43.9	11.0	30.
21.2	66.1	6445.7	450.0	-20.9	-29.3	276.2	14.2	6.2	12.7	317.2	319.7	0.7	46.0	12.2	29.
22.9	69.9	6885.6	425.0	-24.4	-37.0	279.1	15.4	8.0	14.3	317.7	319.6	0.6	44.5	13.7	26.
24.4	73.5	7323.7	400.0	-27.5	-35.8	281.1	21.1	8.3	19.4	319.3	320.9	0.5	46.1	15.5	29.
25.9	77.8	7796.1	375.0	-31.2	-40.1	283.7	27.7	11.1	25.4	320.4	321.5	0.3	40.6	17.7	28.
27.4	81.3	8271.6	350.0	-34.4	-44.6	284.4	33.5	13.8	30.5	322.3	323.1	0.2	34.6	20.4	27.
29.2	85.6	8795.7	325.0	-38.0	99.9	286.4	34.5	13.4	36.1	324.2	999.9	99.9	999.9	24.3	27.
31.3	90.0	9371.4	300.0	-42.5	99.9	285.4	42.1	11.2	40.5	325.4	999.9	99.9	999.9	29.3	25.
33.6	94.8	9918.4	275.0	-47.4	99.9	288.8	44.1	6.7	43.6	326.5	999.9	99.9	999.9	34.5	23.
35.7	98.8	10537.4	250.0	-51.5	99.9	282.6	42.2	1.9	42.2	329.5	999.9	99.9	999.9	40.4	21.
38.0	105.0	11217.5	225.0	-52.6	99.9	279.4	38.0	-0.4	38.0	337.8	999.9	99.9	999.9	45.8	18.
40.7	110.4	11976.0	200.0	-54.2	99.9	285.4	35.6	3.9	35.4	346.0	999.9	99.9	999.9	51.1	16.
43.4	114.5	12836.1	175.0	-51.4	99.9	289.7	23.1	3.9	22.8	355.1	999.9	99.9	999.9	56.9	16.
47.0	121.5	13833.7	150.0	-51.1	99.9	285.1	15.9	1.4	15.8	378.6	999.9	99.9	999.9	60.1	15.
50.9	130.7	14999.4	125.0	-53.8	99.9	290.1	16.1	2.8	15.8	397.7	999.9	99.9	999.9	62.9	15.
55.4	138.3	15831.7	100.0	-55.6	99.9	286.5	11.3	-2.6	11.0	420.4	999.9	99.9	999.9	66.8	14.
61.6	147.3	18240.6	75.0	-59.0	99.9	284.3	7.8	-2.0	7.3	449.2	999.9	99.9	999.9	70.3	13.
69.9	154.3	20814.8	50.0	-64.7	99.9	100.3	5.9	-5.9	1.1	514.6	999.9	99.9	999.9	70.8	11.
99.9	99.9	99.0	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

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Sounding Data

27 May 1977

1100 GMT

STATION NO. 229
CENTERVILLE, ALABAMA

27 MAY 1977
1113 GMT

150 14. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	4.7	140.0	993.5	18.1	16.8	50.0	3.6	-2.8	-2.3	291.9	323.2	12.2	92.0	0.0	0.
99.9	99.0	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	5.4	701.6	975.0	19.1	17.0	153.0	5.0	-2.3	4.5	293.4	326.2	12.7	93.4	0.3	263.
1.5	10.5	525.4	950.0	18.7	17.4	145.2	5.8	-3.3	4.8	296.2	331.1	13.3	92.3	0.6	289.
2.5	12.7	755.0	925.0	18.4	15.5	163.3	3.8	-1.1	3.7	298.3	332.4	12.9	87.3	0.8	304.
3.2	15.0	930.8	900.0	18.4	15.2	153.2	2.7	-1.0	2.0	300.5	333.2	12.2	81.8	0.9	310.
4.1	17.2	1232.4	875.0	16.7	13.8	235.2	0.8	0.4	0.3	301.1	331.8	11.4	83.1	1.0	311.
4.9	19.4	1479.6	850.0	15.1	10.8	16.9	0.3	-0.1	-0.3	302.0	328.2	9.6	75.5	0.9	311.
5.8	21.5	1732.3	825.0	13.3	8.9	49.6	0.3	-0.2	-0.2	302.6	326.5	8.7	74.6	0.9	309.
6.8	24.2	1991.2	800.0	11.9	7.8	126.3	0.3	-0.3	0.2	303.9	326.9	8.3	75.8	0.9	309.
7.4	25.4	2256.8	775.0	10.0	6.5	137.9	0.7	-0.4	0.5	304.6	327.1	8.1	81.1	1.0	309.
8.5	28.9	2530.1	750.0	8.5	4.3	233.4	0.3	0.3	0.2	305.8	325.5	7.0	75.0	1.0	310.
9.4	31.6	2808.8	725.0	6.5	1.6	316.2	0.9	0.6	-0.7	306.5	323.6	6.0	71.2	1.0	310.
10.5	34.2	3094.0	700.0	4.3	0.3	322.6	2.0	1.2	-1.6	307.2	323.2	5.6	75.2	0.9	308.
11.5	36.7	3382.0	675.0	3.1	-2.2	316.9	3.1	2.1	-2.2	309.1	323.2	4.9	68.5	0.7	306.
12.5	39.4	3697.5	650.0	1.7	-7.5	318.1	3.6	2.4	-2.7	310.9	321.1	3.4	51.8	0.5	302.
13.6	42.0	4012.8	625.0	-0.3	-4.2	330.0	3.7	1.9	-3.2	312.1	325.4	4.5	74.6	0.3	286.
14.7	44.9	4338.5	600.0	-2..	-5.8	327.1	4.5	2.5	-3.8	313.1	325.5	4.1	78.4	0.2	216.
15.8	47.8	4675.8	575.0	-4.0	-7.1	326.0	4.4	2.5	-3.6	315.3	327.1	3.9	78.9	0.4	179.
17.0	50.8	5025.0	550.0	-5.5	-10.9	335.0	5.3	2.2	-4.8	317.6	326.9	3.0	65.6	0.7	165.
18.2	53.6	5389.8	525.0	-7.6	-15.0	334.5	5.6	2.4	-5.0	319.3	326.5	2.3	55.0	1.1	162.
19.7	56.6	5768.6	500.0	-9.4	-17.8	330.5	5.9	2.9	-5.1	321.6	327.7	1.9	50.4	1.8	159.
21.0	59.9	6163.3	475.0	-12.1	-19.2	331.0	6.4	3.1	-5.6	323.0	329.2	1.9	66.1	2.1	157.
22.5	63.1	6574.5	450.0	-15.5	-20.1	339.2	6.3	2.2	-5.9	323.7	329.4	1.7	67.9	2.7	156.
23.8	66.3	7004.2	425.0	-18.2	-24.1	347.6	6.1	0.9	-6.1	325.6	329.9	1.3	56.8	3.1	157.
25.3	69.8	7454.5	400.0	-21.3	-28.6	350.9	5.5	0.6	-5.4	327.3	330.4	0.9	51.5	3.4	158.
26.9	73.3	7927.5	375.0	-25.1	-32.9	5.7	5.0	-0.5	-4.9	328.4	330.6	0.6	48.1	3.8	160.
28.4	77.0	8424.1	350.0	-29.1	-36.2	14.9	3.9	-1.0	-3.7	329.5	331.3	0.5	50.3	4.1	162.
30.2	80.9	8949.3	325.0	-33.4	-41.8	18.6	5.0	-1.6	-4.7	330.6	331.7	0.3	42.3	4.5	166.
32.1	84.9	9504.7	300.0	-38.8	-44.9	22.1	6.2	-2.3	-5.7	330.8	331.6	0.2	51.5	5.1	170.
34.2	89.9	10095.7	275.0	-43.8	99.9	17.6	7.0	-1.5	-6.8	331.9	999.9	99.9	999.9	5.8	175.
36.2	93.4	10729.5	250.0	-49.2	99.9	344.2	7.3	2.0	-7.1	333.0	999.9	99.9	999.9	6.6	175.
38.7	99.0	11419.5	225.0	-54.8	99.9	346.7	6.7	1.6	-6.5	334.5	999.9	99.9	999.9	7.7	173.
41.3	103.0	12164.7	200.0	-59.5	99.9	341.2	4.6	1.5	-4.4	338.6	999.9	99.9	999.9	8.5	173.
44.3	109.5	12990.6	175.0	-64.5	99.9	323.7	5.3	3.1	-4.3	343.5	999.9	99.9	999.9	9.4	170.
47.7	114.3	13970.3	150.0	-63.8	99.9	311.5	5.3	4.0	-3.5	360.1	999.9	99.9	999.9	10.2	167.
51.4	120.8	15047.3	125.0	-63.2	99.9	296.9	7.9	6.9	-3.9	380.6	999.9	99.9	999.9	11.4	162.
57.0	129.0	16495.4	100.0	-61.7	99.9	341.0	5.1	1.6	-4.8	408.6	999.9	99.9	999.9	13.2	157.
63.2	139.0	18184.5	75.0	-65.6	99.9	25.6	2.4	-1.5	-1.9	435.4	999.9	99.9	999.9	14.0	152.
71.5	143.5	20492.4	50.0	-57.2	99.9	74.8	5.4	-5.2	-1.4	508.9	999.9	99.9	999.9	14.5	165.
85.7	151.7	25157.7	25.0	-49.0	99.9	106.0	6.3	-6.1	1.7	644.1	999.9	99.9	999.9	18.2	182.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 235
JACKSON, MISSISSIPPI

27 MAY 1977
1100 GMT

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

159 10. 1

TIME, MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	6.3	100.0	997.0	17.5	16.0	160.0	0.0	0.0	0.0	290.9	320.7	11.6	91.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.7	8.4	297.8	975.0	22.5	18.5	321.4	1.7	1.1	-1.3	297.8	334.5	14.0	78.2	0.2	336.
1.5	10.6	520.6	950.0	22.4	15.2	194.4	1.8	0.4	1.7	299.9	330.8	11.8	63.9	0.2	341.
2.4	12.9	742.3	925.0	20.4	12.8	175.4	1.7	-0.1	1.7	300.2	327.6	10.2	61.8	0.3	347.
3.3	15.1	960.0	900.3	18.7	15.6	213.6	1.5	0.9	1.2	300.8	334.3	12.5	82.0	0.4	350.
4.2	17.4	1230.4	875.0	16.4	12.5	271.0	1.7	1.7	-0.0	300.8	329.2	10.5	77.8	0.4	3.
5.0	20.1	1477.1	850.0	14.9	10.1	303.3	1.6	1.3	-0.9	301.8	326.9	9.2	72.9	0.4	15.
6.1	22.4	1720.9	825.0	13.9	9.9	294.7	1.2	1.1	-0.5	303.2	327.2	8.7	72.0	0.4	27.
7.0	25.0	1959.0	800.0	12.1	7.4	302.2	1.3	1.1	-0.7	304.0	326.6	8.1	73.1	0.4	35.
8.0	27.4	2254.8	775.0	10.4	6.5	289.9	2.6	2.4	-1.0	305.1	327.1	7.9	76.7	0.4	49.
9.0	30.1	2427.4	750.0	8.7	4.2	273.8	4.5	4.5	-0.3	306.1	325.6	6.9	72.2	0.6	65.
10.1	32.8	2707.5	725.0	7.2	99.9	281.7	6.0	5.8	-1.4	307.3	999.9	99.9	999.9	0.6	77.
11.1	35.5	3005.1	700.0	5.7	99.9	297.6	7.0	6.2	-3.2	308.9	999.9	99.9	999.9	1.2	86.
12.1	38.2	3291.8	675.0	3.9	-2.3	305.9	7.2	5.3	-4.2	309.3	323.9	4.8	64.4	1.6	96.
13.2	40.9	3537.6	650.0	1.7	-0.4	305.2	6.4	5.2	-3.7	310.3	327.5	5.7	86.0	2.0	103.
14.3	43.8	4012.8	625.0	-1.1	-3.5	305.6	4.8	3.9	-2.8	311.2	325.2	4.8	82.7	2.4	106.
15.5	46.8	4338.8	600.0	-1.4	-11.0	307.9	4.0	3.1	-2.4	314.6	323.0	2.8	47.7	2.6	106.
16.6	49.9	4675.9	575.0	-2.8	-16.0	319.4	5.3	3.5	-4.0	316.7	322.8	1.9	35.3	2.9	110.
17.8	52.8	5028.9	550.0	-3.6	-23.8	327.1	5.0	4.3	-6.7	319.8	323.2	1.0	19.1	3.3	115.
19.1	55.9	5394.4	525.0	-6.6	-26.5	325.5	6.2	5.2	-7.4	320.4	323.3	0.8	15.7	3.9	121.
20.5	59.0	5773.6	500.0	-9.1	-30.5	328.7	7.9	6.1	-6.7	321.9	324.0	0.6	15.5	4.6	125.
21.9	62.4	6169.1	475.0	-12.2	-40.8	329.6	7.4	2.9	-7.3	322.9	323.8	0.2	7.4	5.2	128.
23.4	65.9	6579.2	450.0	-14.5	-55.3	330.9	7.4	3.8	-6.8	324.7	324.9	0.1	2.4	5.8	132.
25.0	69.3	7009.9	425.0	-18.3	-60.1	316.1	7.1	4.9	-5.1	325.5	325.6	0.0	1.2	6.5	133.
26.4	72.7	7459.1	400.0	-21.2	-63.4	320.2	5.2	3.4	-4.0	327.5	327.5	0.0	1.0	7.0	133.
28.1	76.5	7931.1	375.0	-25.7	-63.7	331.5	4.7	2.3	-4.2	327.6	327.7	0.0	1.4	7.5	134.
29.9	80.5	8427.4	350.0	-29.6	-65.1	330.8	4.0	1.9	-3.5	328.4	328.9	0.0	1.8	7.9	135.
31.6	84.5	8951.9	325.0	-33.2	-64.2	325.2	6.9	3.9	-5.6	331.0	331.1	0.0	1.6	8.4	136.
33.5	88.6	9509.4	300.0	-37.6	-63.9	315.1	9.5	6.7	-6.7	332.4	332.5	0.0	2.2	9.4	136.
35.7	93.2	10107.4	275.0	-43.0	99.9	305.7	10.4	8.4	-6.1	333.0	999.9	99.9	999.9	10.7	135.
37.9	97.7	10738.9	250.0	-49.1	99.9	295.4	10.4	9.4	-4.4	334.6	999.9	99.9	999.9	12.0	134.
40.2	102.4	11405.4	225.0	-53.4	99.9	289.8	10.0	9.5	-3.4	336.7	999.9	99.9	999.9	13.4	131.
42.9	109.0	12177.3	200.0	-59.7	99.9	297.4	10.0	9.9	-4.6	339.2	999.9	99.9	999.9	14.9	129.
45.3	113.8	12996.3	175.0	-64.0	99.9	301.4	11.8	10.3	-4.1	344.6	999.9	99.9	999.9	16.7	128.
48.9	119.9	13935.7	150.0	-62.8	99.9	306.9	11.5	9.2	-6.9	361.9	999.9	99.9	999.9	18.9	128.
52.9	126.9	15055.9	125.0	-62.8	99.9	289.5	6.9	6.5	-2.3	382.7	999.9	99.9	999.9	21.1	128.
57.4	134.9	16424.8	100.0	-63.8	99.9	295.5	6.8	6.2	-2.9	404.8	999.9	99.9	999.9	22.7	128.
63.5	142.8	18176.5	75.0	-65.8	99.9	38.0	4.3	-2.7	-3.4	434.9	999.9	99.9	999.9	23.9	127.
71.3	150.3	20449.9	50.0	-59.5	99.9	80.7	5.8	-5.5	-0.9	503.4	999.9	99.9	999.9	22.6	131.
93.8	159.8	25110.5	25.0	-51.7	99.9	87.9	4.8	-4.8	-0.2	636.8	999.9	99.9	999.9	21.4	139.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 240
LAKE CHARLES, LOUISIANA

27 MAY 1977
1100 GMT

149 11. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	5.3	5.0	1009.7	21.7	12.8	310.0	2.1	1.6	-1.3	294.1	318.5	9.3	57.0	0.0	0.
0.3	5.9	65.8	1000.0	22.8	20.8	172.2	2.3	-0.3	2.3	296.0	337.1	15.8	88.8	0.4	113.
1.2	7.9	307.4	975.0	22.9	19.9	294.5	3.0	2.9	-0.7	298.3	338.1	15.2	82.9	0.5	121.
2.1	10.0	574.4	950.0	22.0	17.9	282.7	3.2	3.1	-0.7	299.6	335.9	13.7	77.2	0.7	124.
3.0	11.9	746.5	925.0	20.9	15.5	243.5	2.5	2.2	1.1	300.7	333.1	12.1	71.6	0.8	116.
4.1	14.0	1003.3	900.0	19.2	13.9	257.5	2.4	2.5	0.4	301.3	331.4	11.2	71.1	0.6	108.
5.1	16.9	1245.4	875.0	17.9	12.8	285.5	3.5	3.3	-0.9	302.3	331.3	10.7	72.6	1.1	106.
6.0	19.1	1403.0	850.0	15.7	10.1	300.3	3.3	2.8	-1.7	302.6	327.7	9.2	69.2	1.3	107.
7.1	20.3	1746.5	825.0	14.9	8.2	321.2	3.2	2.0	-2.5	303.7	326.8	8.4	67.4	1.5	110.
8.2	22.5	2005.4	800.0	13.5	6.2	324.7	3.6	2.1	-2.9	305.5	326.5	7.5	61.6	1.7	115.
9.2	24.7	2273.8	775.0	12.3	1.8	318.6	3.9	2.6	-3.0	307.1	323.3	6.7	48.8	1.9	117.
10.4	26.9	2548.0	750.0	11.3	0.0	324.9	4.9	2.8	-4.0	308.9	323.7	5.1	45.6	2.2	121.
11.6	29.3	2830.6	725.0	10.1	-4.2	336.0	7.0	2.9	-6.4	310.5	322.1	3.9	36.4	2.5	125.
12.8	31.8	3122.0	700.0	9.7	-12.8	339.9	9.2	3.2	-8.7	313.2	319.1	1.9	17.5	3.0	132.
14.0	34.3	3422.5	675.0	7.7	-6.2	333.4	11.2	5.0	-10.0	313.9	324.6	3.6	37.6	3.7	137.
15.2	36.4	3731.9	650.0	5.1	-7.9	327.9	12.4	6.6	-10.5	314.7	324.6	3.2	28.8	4.5	139.
16.4	39.2	4050.7	625.0	3.1	-12.9	327.9	13.1	6.9	-11.1	316.0	323.1	2.3	20.7	5.5	140.
17.5	41.5	4380.1	600.0	0.3	-10.7	330.9	13.4	6.5	-11.7	316.5	325.2	2.8	43.3	6.5	142.
19.0	44.4	4719.6	575.0	-2.6	-10.4	334.1	13.6	6.0	-12.3	316.9	326.2	3.0	55.3	7.5	143.
20.4	47.3	5070.2	550.0	-6.2	-8.7	338.2	13.5	5.0	-12.5	316.7	327.7	3.6	83.0	8.6	145.
21.7	50.2	5432.6	525.0	-9.2	-11.1	339.7	12.1	4.2	-11.3	317.4	327.0	3.1	66.0	9.6	147.
23.1	53.0	5808.9	500.0	-10.8	-16.5	332.1	9.1	4.3	-8.1	319.9	326.6	2.1	63.0	10.8	148.
24.6	55.9	6201.0	475.0	-13.6	-19.4	311.5	8.6	6.4	-5.7	321.1	326.7	1.7	61.5	11.3	147.
26.2	59.0	6610.8	450.0	-15.5	-23.8	297.3	8.0	7.1	-3.7	323.8	327.9	1.2	48.4	12.0	146.
29.0	62.3	7039.8	425.0	-18.6	-30.5	290.0	9.2	7.7	-2.8	325.2	327.6	0.7	34.2	12.7	144.
29.9	65.7	7489.7	400.0	-21.4	-39.3	280.2	10.0	9.9	-1.8	327.1	328.3	0.3	18.1	13.5	141.
31.7	69.0	7961.7	375.0	-25.3	-42.6	277.3	11.8	11.7	-1.5	328.1	329.0	0.2	17.9	14.4	138.
33.4	72.4	8459.1	350.0	-29.0	-42.9	273.1	11.7	11.7	-0.6	329.7	330.6	0.2	24.4	15.4	135.
35.5	76.3	8984.0	325.0	-33.6	-46.5	267.4	12.9	12.9	0.6	330.3	331.0	0.2	25.8	16.4	131.
37.6	80.3	9540.7	300.0	-38.1	-47.9	265.0	13.7	13.6	1.2	331.7	332.3	0.2	34.5	17.7	127.
39.9	84.3	10134.4	275.0	-42.3	99.9	272.5	15.6	15.6	-0.7	333.9	999.9	99.9	999.9	19.2	123.
42.4	88.5	10772.7	250.0	-46.9	99.9	273.6	20.7	20.6	-1.3	336.3	999.9	99.9	999.9	21.7	120.
45.1	93.4	11462.0	225.0	-52.3	99.9	270.1	22.4	22.4	-0.0	338.4	999.9	99.9	999.9	24.9	116.
47.7	99.2	12213.5	200.0	-58.2	99.9	273.5	16.6	16.5	-1.0	340.6	999.9	99.9	999.9	27.9	113.
50.6	103.5	13047.6	175.0	-63.9	99.9	264.7	10.9	10.8	1.0	340.5	999.9	99.9	999.9	29.7	112.
54.1	109.5	13985.9	150.0	-65.5	99.9	269.6	17.4	17.4	0.4	357.3	999.9	99.9	999.9	32.5	109.
58.0	115.8	15099.3	125.0	-64.0	99.9	290.1	11.4	10.7	-3.9	379.2	999.9	99.9	999.9	35.9	108.
62.9	123.0	16462.2	100.0	-66.0	99.9	298.9	7.3	6.4	-3.5	400.2	999.9	99.9	999.9	38.4	108.
68.9	131.0	18199.5	75.0	-66.2	99.9	321.0	4.0	2.5	-3.1	434.1	999.9	99.9	999.9	39.3	109.
77.1	139.3	20722.1	50.0	-59.5	99.9	357.8	4.5	0.2	-4.5	503.3	999.9	99.9	999.9	38.9	111.
99.9	149.0	25149.4	25.0	-50.6	99.9	999.9	999.9	99.9	99.9	639.2	999.9	99.9	999.9	35.5	114.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 247
LONGVIEW, TEXAS

27 MAY 1977
1100 GMT

153 12. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.9	124.0	995.8	19.4	18.6	290.0	1.5	1.4	-0.5	292.9	328.1	13.7	95.0	0.0	0.
99.9	99.9	99.0	1000.0	99.9	99.9	99.0	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.7	9.0	309.1	975.0	23.7	16.4	149.0	2.5	-1.3	2.2	299.0	331.4	12.2	63.7	0.1	321.
1.5	10.7	534.5	950.0	22.7	15.9	150.8	2.5	-1.2	2.1	300.2	332.5	12.1	65.4	0.2	326.
2.4	12.5	760.4	925.0	21.1	14.5	151.3	1.2	0.0	1.2	300.9	331.2	11.3	65.9	0.3	329.
3.3	15.0	1005.1	900.0	18.9	13.0	280.0	0.8	0.8	-0.1	301.0	329.5	10.5	66.2	0.4	331.
4.3	17.2	1247.1	875.0	17.7	10.3	316.0	3.5	2.4	-2.5	301.7	326.5	9.1	63.8	0.3	343.
5.2	19.7	1494.5	850.0	15.3	12.7	326.4	6.5	3.6	-5.4	302.2	331.0	10.6	81.9	0.1	68.
6.9	22.1	1747.3	825.0	13.1	9.6	336.6	9.0	3.2	-7.3	303.5	327.6	9.2	76.4	0.5	140.
7.0	24.7	2004.0	800.0	11.2	7.0	335.9	6.5	2.7	-5.9	303.1	324.0	7.9	75.6	0.9	149.
7.9	27.1	2271.3	775.0	10.9	3.6	329.9	5.3	2.8	-4.6	305.5	323.6	6.4	60.6	1.2	151.
8.9	29.8	2544.5	750.0	9.6	0.0	315.8	5.0	3.5	-3.6	307.0	321.8	5.1	51.4	1.5	149.
10.0	32.6	2825.8	725.0	9.1	-9.9	308.3	5.4	4.2	-3.3	309.6	317.2	2.5	24.9	1.8	145.
11.1	35.3	3115.8	700.0	7.9	-3.5	298.5	6.1	5.4	-2.9	311.3	323.7	4.2	43.9	2.1	142.
12.2	38.0	3415.1	675.0	5.9	-3.2	290.9	8.6	8.4	-1.6	312.3	325.6	4.5	51.6	2.5	137.
13.2	40.7	3723.5	650.0	3.7	-2.6	271.5	11.7	11.7	-0.3	313.1	327.5	4.9	63.3	3.0	128.
14.3	43.6	4041.1	625.0	1.5	-4.2	269.3	12.8	12.8	0.2	314.1	327.5	4.5	65.7	3.7	120.
15.5	46.5	4369.8	600.0	-1.3	-8.1	270.2	12.3	12.3	-0.0	314.6	326.8	4.1	70.0	4.5	114.
16.7	49.5	4709.8	575.0	-3.9	-7.9	272.7	11.5	11.5	-0.7	315.5	326.6	3.7	72.5	5.3	111.
18.1	52.6	5059.9	550.0	-6.1	-10.4	279.3	12.1	11.9	-1.9	316.9	326.6	3.2	71.3	6.3	109.
19.5	55.6	5419.4	525.0	-9.1	-13.4	276.7	12.0	12.0	-1.4	317.5	325.6	2.6	70.6	7.2	107.
20.7	58.9	5795.7	500.0	-11.6	-15.8	269.1	10.4	10.4	0.2	318.9	325.0	2.2	71.4	8.1	106.
22.1	62.1	6186.6	475.0	-15.1	-17.6	257.6	8.9	8.7	1.9	319.3	325.7	2.0	81.2	8.5	104.
23.5	65.4	6593.8	450.0	-17.7	-21.3	244.9	9.1	8.2	3.8	321.0	326.1	1.5	73.4	9.4	102.
24.9	68.0	7019.7	425.0	-21.0	-24.2	252.0	10.1	9.6	3.1	322.0	326.2	1.3	75.5	10.1	99.
26.4	72.5	7464.2	400.0	-24.2	-30.5	256.9	10.3	10.0	2.3	323.5	326.1	0.7	55.6	11.0	97.
28.2	76.3	7933.3	375.0	-27.7	-29.1	251.5	9.0	8.5	2.9	325.4	328.5	0.9	65.0	11.9	95.
30.1	80.3	8426.4	350.0	-30.4	-35.2	250.3	9.5	9.0	3.2	327.8	329.8	0.5	62.5	12.9	93.
32.1	84.2	8945.6	325.0	-34.2	-41.0	244.9	9.6	8.6	4.1	329.6	330.8	0.3	46.6	13.9	91.
34.1	88.2	9505.4	300.0	-38.5	99.9	242.6	11.2	9.9	5.2	331.1	999.9	99.9	999.9	15.0	89.
36.3	92.7	10098.7	275.0	-43.5	99.9	229.4	9.1	6.9	5.9	332.2	999.9	99.9	999.9	16.3	87.
38.8	97.2	10729.8	250.0	-48.9	99.9	217.2	9.2	5.5	7.3	333.5	999.9	99.9	999.9	17.1	84.
41.2	102.0	11413.5	225.0	-54.6	99.9	231.0	10.9	8.5	6.9	334.9	999.9	99.9	999.9	18.3	80.
43.8	107.3	12160.2	200.0	-60.1	99.9	209.3	7.2	3.5	6.3	337.6	999.9	99.9	999.9	19.5	79.
44.5	112.6	12994.7	175.0	-63.5	99.9	226.8	15.2	11.1	10.4	345.1	999.9	99.9	999.9	20.8	75.
50.1	118.5	13930.0	150.0	-63.4	99.9	291.7	11.4	11.0	-4.4	360.9	999.9	99.9	999.9	23.2	76.
54.3	125.0	15057.0	125.0	-63.1	99.9	275.6	8.1	8.0	-0.8	380.1	999.9	99.9	999.9	25.1	75.
58.8	131.9	16422.8	100.0	-64.1	99.9	304.7	5.8	4.6	-3.7	403.2	999.9	99.9	999.9	27.2	80.
64.1	139.0	18171.9	75.0	-66.1	99.9	355.2	5.0	0.4	-5.0	434.3	999.9	99.9	999.9	28.1	83.
74.0	146.0	20677.2	50.0	-58.1	99.9	79.6	7.2	-7.1	-1.3	506.5	999.9	99.9	999.9	24.8	85.
99.2	153.9	25110.8	25.0	-50.5	99.9	999.9	999.9	99.9	99.9	639.8	999.9	99.9	999.9	21.0	96.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 255
VICTORIA, TEXAS

27 MAY 1977
1100 GMT

165 11. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	5.7	31.0	1005.1	20.6	18.9	140.0	2.6	-1.7	2.0	293.3	326.0	13.8	90.0	0.0	0.
0.5	5.7	77.8	1000.0	22.2	20.9	224.5	4.9	3.4	3.5	295.4	336.4	15.9	92.3	0.3	346.
1.1	8.8	299.1	975.0	22.3	21.0	224.1	6.5	4.5	4.7	297.6	340.0	16.3	92.2	0.5	2.
1.9	10.3	525.4	950.0	20.8	16.5	180.7	8.8	0.1	8.8	299.1	331.4	12.8	77.9	0.9	1.
2.8	12.5	756.4	925.0	21.8	6.9	175.6	9.8	-0.7	9.8	301.7	320.9	7.0	39.4	1.4	1.
3.5	15.1	997.7	900.0	20.6	6.2	163.6	8.2	-2.3	7.9	302.9	321.2	6.6	39.0	1.8	358.
4.6	17.4	1234.7	875.0	18.5	8.3	159.7	8.8	-3.2	8.2	303.0	324.8	7.9	51.4	2.3	356.
5.5	19.9	1484.6	850.0	18.0	2.8	165.6	7.4	-1.8	7.1	305.0	320.7	5.5	36.2	2.7	352.
6.6	22.1	1715.6	825.0	17.5	-6.0	143.7	6.5	0.4	5.6	307.1	315.9	3.0	19.6	3.1	352.
7.6	24.9	2001.9	800.0	16.7	-12.7	211.8	6.4	3.3	5.4	309.0	314.6	1.8	12.2	3.5	355.
8.6	27.2	2271.5	775.0	16.8	-27.3	250.4	3.9	3.7	1.3	311.9	313.7	0.5	3.4	3.7	358.
9.6	30.0	2543.8	750.0	16.0	-10.0	266.8	3.9	3.8	0.2	314.0	321.4	2.4	15.7	3.7	2.
10.6	32.9	2816.2	725.0	13.4	-6.8	264.5	4.2	4.2	0.4	314.1	323.8	3.2	23.8	3.7	6.
11.8	35.8	3090.5	700.0	11.3	-1.3	271.1	5.1	5.1	-0.1	315.0	329.9	5.0	41.6	3.8	11.
12.9	38.7	3433.2	675.0	9.2	-2.2	287.2	6.9	6.6	-2.0	315.9	329.4	4.5	41.5	3.8	17.
14.1	41.1	3744.5	650.0	6.4	-5.0	294.9	8.1	7.4	-3.4	316.2	328.5	4.1	44.0	3.9	25.
15.3	44.1	4064.6	625.0	3.4	-6.1	297.7	9.8	8.7	-4.6	316.4	328.2	3.9	46.4	3.8	35.
16.4	47.3	4394.4	600.0	0.3	-5.9	301.4	10.6	9.1	-5.5	316.5	328.9	4.1	63.0	3.9	44.
17.7	50.4	4734.1	575.0	-2.9	-6.5	304.4	10.3	9.5	-5.8	316.7	329.1	4.1	75.8	4.2	55.
19.8	53.4	5085.0	550.0	-5.7	-10.9	306.2	10.4	9.7	-5.4	317.4	326.8	3.0	66.6	4.4	64.
20.1	56.5	5449.3	525.0	-8.5	-11.9	300.9	10.8	9.3	-5.5	318.3	327.4	2.9	76.0	4.9	73.
21.5	59.9	5826.6	500.0	-11.8	-13.7	290.0	10.0	9.4	-3.4	319.7	327.0	2.6	85.2	5.6	79.
22.8	63.4	6215.9	475.0	-14.5	-20.3	273.2	9.5	9.4	-1.4	320.1	325.2	1.6	61.5	6.3	82.
24.2	66.9	6624.2	450.0	-16.3	-24.2	265.4	10.5	10.6	0.8	322.8	326.8	1.2	50.3	7.1	83.
25.5	70.5	7051.8	425.0	-19.7	-26.5	264.3	12.1	12.1	1.2	323.5	327.2	1.0	54.2	8.1	83.
27.3	74.3	7499.0	400.0	-22.9	-30.0	269.2	14.6	14.6	0.2	325.2	326.5	0.4	23.7	9.3	83.
28.9	78.3	7968.5	375.0	-27.0	-43.6	269.0	16.4	16.4	0.3	325.9	326.7	0.2	18.8	10.9	84.
30.5	82.3	8462.1	350.0	-31.1	-52.1	269.0	18.0	18.0	0.3	326.8	327.2	0.1	10.5	12.6	85.
32.4	86.5	8982.7	325.0	-35.5	-61.2	270.8	19.9	19.9	-0.2	327.8	327.9	0.0	5.2	14.7	86.
34.4	91.0	9535.6	300.0	-39.1	-72.3	273.4	22.5	22.4	-1.4	330.2	330.2	0.0	1.6	17.2	86.
36.3	95.7	10126.9	275.0	-42.9	-69.9	273.9	23.1	23.1	-1.5	331.2	999.9	99.9	999.9	19.9	88.
38.6	100.7	10749.9	250.0	-47.6	99.9	272.9	22.0	21.8	2.7	335.9	999.9	99.9	999.9	22.8	88.
41.1	105.9	11451.3	225.0	-53.1	99.9	267.5	24.1	24.0	1.0	337.2	999.9	99.9	999.9	26.2	87.
43.4	111.5	12201.0	200.0	-57.4	99.9	275.4	23.8	23.7	-2.0	341.9	999.9	99.9	999.9	29.7	88.
44.5	117.5	13033.3	175.0	-61.9	99.9	276.1	21.8	21.7	-2.3	347.5	999.9	99.9	999.9	33.0	88.
49.9	124.3	13984.9	150.0	-62.0	99.9	296.5	21.6	19.3	-9.6	363.2	999.9	99.9	999.9	37.6	91.
53.8	131.3	15104.2	125.0	-65.7	99.9	289.3	16.3	15.3	-5.4	376.0	999.9	99.9	999.9	41.6	92.
58.5	139.0	16497.8	100.0	-67.8	99.9	334.2	9.4	4.1	-8.5	398.7	999.9	99.9	999.9	44.9	92.
64.4	145.7	18189.9	75.0	-65.7	99.9	74.5	2.8	-2.7	-0.9	435.1	999.9	99.9	999.9	45.4	97.
72.8	155.0	20691.3	50.0	-61.2	99.9	77.5	5.1	-5.0	-1.1	499.4	999.9	99.9	999.9	43.3	97.
85.9	164.0	25122.2	25.0	-52.2	99.9	999.9	999.9	99.9	99.9	634.7	999.9	99.9	999.9	40.4	99.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 260
STEPHENVILLE, TEXAS

27 MAY 1977
1100 GMT

155 10. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.5	399.0	963.0	21.0	17.5	170.0	2.4	-0.3	2.6	297.4	332.5	13.3	81.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	999.9	999.9	999.	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	999.9	999.9	999.	999.
0.4	10.5	508.3	950.0	21.1	17.7	999.9	999.9	99.9	99.9	298.5	334.4	13.6	81.0	999.9	999.
1.4	12.6	739.9	925.0	21.1	17.1	999.9	999.9	99.9	99.9	300.3	336.8	13.5	78.2	999.9	999.
2.4	15.0	977.3	900.0	19.1	15.7	999.9	999.9	99.9	99.9	301.2	334.9	12.6	80.4	1.1	239.
3.2	17.1	1219.7	875.0	17.1	15.2	159.5	10.3	-3.5	9.6	301.6	335.5	12.6	89.0	1.6	227.
4.1	19.5	1467.3	850.0	15.9	12.5	167.2	9.8	-2.4	9.4	302.4	332.3	10.8	80.5	2.1	239.
5.0	21.7	1721.1	825.0	14.6	10.8	169.5	9.1	-1.5	9.0	304.0	331.3	10.0	78.4	2.6	240.
6.1	24.1	1981.4	800.0	14.1	8.6	202.9	7.5	2.9	6.9	306.2	330.7	8.8	69.5	3.0	242.
7.3	26.5	2250.1	775.0	14.7	2.8	238.5	8.9	7.6	4.6	309.6	327.1	6.1	44.8	3.3	251.
8.4	29.0	2525.9	750.0	13.6	-1.4	242.2	10.4	9.2	4.8	311.3	325.0	4.6	35.8	3.6	2.
9.6	31.6	2811.6	725.0	11.4	-2.7	243.3	10.7	9.6	4.8	311.9	324.8	4.3	37.3	4.0	11.
10.8	34.2	3107.4	700.0	8.8	-3.2	257.0	9.8	9.6	2.2	312.3	325.1	4.3	42.9	4.4	18.
11.9	36.9	3413.2	675.0	6.4	-3.5	275.5	10.2	10.1	-1.0	312.8	325.4	4.4	49.1	4.7	26.
13.0	39.4	3732.1	650.0	4.3	-4.1	284.5	12.2	11.8	-3.0	313.9	326.9	4.4	54.4	4.9	35.
14.3	42.1	4039.7	625.0	1.0	-5.4	286.6	13.9	13.3	-4.0	313.6	325.9	4.1	62.1	5.3	45.
15.6	45.0	4356.8	600.0	-1.4	-7.6	287.1	15.0	14.3	-4.4	314.5	325.4	3.6	62.8	5.9	55.
16.8	47.9	4684.5	575.0	-4.3	-9.1	285.8	16.8	15.2	-4.3	315.0	325.1	3.7	66.9	6.7	63.
18.1	50.7	5042.9	550.0	-7.7	-11.6	285.7	17.6	16.9	-4.7	315.0	323.8	2.9	73.6	7.7	69.
19.4	53.9	5402.9	525.0	-11.1	-14.7	283.8	20.0	19.4	-4.8	315.0	322.3	2.3	74.9	9.0	75.
20.8	56.5	5776.0	500.0	-14.0	-19.4	276.1	20.0	19.9	-2.1	316.3	321.7	1.8	69.2	10.5	79.
22.4	59.3	6163.4	475.0	-16.8	-20.2	260.6	20.5	20.2	3.7	317.2	322.3	1.6	74.9	12.4	81.
24.0	62.3	6568.6	450.0	-18.6	-19.6	245.8	20.7	18.9	4.5	319.9	325.6	1.8	91.8	14.3	76.
25.6	65.4	6993.9	425.0	-21.4	-23.4	239.4	22.2	19.1	11.3	321.5	326.0	1.4	84.0	16.3	77.
27.1	70.0	7437.4	400.0	-24.9	-35.8	240.4	22.1	19.2	10.9	322.7	324.4	0.5	38.2	18.2	75.
28.8	73.4	7903.6	375.0	-28.8	-40.2	243.6	22.9	20.5	10.2	323.5	324.6	0.3	33.4	20.4	74.
30.5	77.3	8397.5	350.0	-32.7	-47.4	246.5	20.1	18.4	8.0	324.7	325.2	0.1	21.1	22.7	73.
32.7	81.0	8911.0	325.0	-36.8	-51.3	258.2	18.1	17.7	3.7	325.9	326.3	0.1	20.2	25.0	73.
34.7	85.1	9460.7	300.0	-40.8	99.9	257.7	19.9	19.5	4.3	327.9	999.9	99.9	999.9	27.2	73.
36.9	89.3	10047.6	275.0	-45.2	99.9	262.9	19.2	19.0	2.4	329.9	999.9	99.9	999.9	29.7	74.
39.7	94.0	10680.2	250.0	-47.6	99.9	274.9	18.4	18.3	-1.4	335.3	999.9	99.9	999.9	32.8	75.
42.7	98.9	11360.4	225.0	-51.8	99.9	265.1	19.5	19.5	1.7	339.1	999.9	99.9	999.9	35.5	77.
45.3	103.9	12127.9	200.0	-57.2	99.9	242.0	14.7	13.0	6.9	342.3	999.9	99.9	999.9	38.2	77.
48.5	109.9	12960.5	175.0	-60.5	99.9	258.0	17.1	16.7	3.6	350.0	999.9	99.9	999.9	40.9	78.
52.1	115.9	13814.9	150.0	-61.9	99.9	291.9	19.8	18.4	-7.4	353.6	999.9	99.9	999.9	44.8	78.
55.8	123.0	14843.3	125.0	-62.9	99.9	292.5	16.5	15.3	-6.3	341.2	999.9	99.9	999.9	49.0	82.
62.1	130.8	16404.1	100.0	-65.8	99.9	306.1	8.1	6.5	-4.9	400.7	999.9	99.9	999.9	52.4	82.
69.2	139.7	18149.9	75.0	-65.1	99.9	342.1	3.5	1.1	-3.3	436.4	999.9	99.9	999.9	53.4	84.
73.6	149.7	20655.8	50.0	-55.2	99.9	84.6	7.0	-6.9	-0.7	506.3	999.9	99.9	999.9	51.5	86.
93.0	159.8	25071.7	25.0	-51.0	99.9	151.2	5.6	-2.7	4.9	637.9	999.9	99.9	999.9	45.4	86.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 241
DEL RIO, TEXAS

27 MAY 1977
1103 GMT

162 11. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.5	714.0	971.1	22.5	19.9	120.0	5.2	-4.5	2.6	298.1	338.1	15.2	85.0	0.0	0.
99.9	99.9	99.9	1003.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.3	999.9	99.9	999.9	999.9	999.
0.9	10.4	595.7	950.0	21.3	20.3	194.7	4.0	1.0	3.9	295.9	340.9	16.0	92.2	8.6	360.
1.9	12.5	737.4	925.0	20.3	19.4	159.9	10.6	-3.7	10.0	300.1	341.2	15.6	94.9	1.0	322.
2.7	14.9	878.7	900.0	19.4	19.5	166.6	10.4	-2.5	10.3	301.5	341.8	15.1	94.7	1.8	330.
3.9	16.9	1017.9	875.0	18.1	17.5	173.4	8.7	-1.0	8.6	302.4	341.9	14.6	94.7	2.2	336.
4.9	19.4	1447.2	850.0	17.0	15.0	177.5	8.9	-0.4	8.8	303.3	340.7	12.8	88.4	2.8	340.
5.9	21.5	1722.6	825.0	18.9	1.7	195.9	9.7	2.3	9.4	308.5	325.9	6.1	38.8	3.2	343.
6.9	24.0	1997.7	800.0	19.7	4.5	217.2	10.9	6.5	8.6	312.2	331.5	6.6	38.7	3.8	350.
7.8	26.3	2260.0	775.0	18.0	0.4	224.5	11.7	8.2	9.3	313.2	328.4	5.1	36.5	4.1	357.
9.0	29.0	2519.7	751.0	16.9	-1.8	226.9	10.3	7.5	7.0	314.8	328.2	4.5	38.0	4.6	5.
9.9	31.5	2777.1	725.0	16.0	-1.9	231.2	9.2	7.2	5.9	314.9	328.6	4.6	33.4	5.0	9.
11.1	34.3	3121.5	700.0	11.2	-2.7	237.2	7.6	6.4	4.1	314.9	324.3	4.5	37.7	5.4	13.
12.2	36.9	3373.8	675.0	8.7	-5.3	233.2	6.4	5.2	3.9	315.4	327.0	3.9	36.7	5.8	16.
13.4	39.5	3774.6	650.0	6.2	-7.1	245.3	8.3	7.7	2.6	316.0	326.6	3.5	37.6	6.1	19.
14.7	42.4	4074.9	625.0	3.6	-7.1	253.9	9.1	8.7	2.5	316.5	327.5	3.6	45.5	6.5	23.
15.8	45.4	4374.5	600.0	0.4	-8.8	265.3	10.0	9.9	0.8	316.6	326.7	3.3	50.1	6.9	27.
17.0	48.5	4774.2	575.0	-2.7	-10.5	271.9	10.5	10.4	-0.7	316.9	326.1	3.0	55.1	7.2	33.
18.2	51.6	5074.8	550.0	-6.0	-10.8	269.2	12.0	12.0	0.3	317.3	326.4	3.0	68.6	7.7	38.
19.6	54.4	5437.4	525.0	-8.9	-14.3	267.1	14.0	13.9	0.7	317.9	325.5	2.4	64.2	8.4	43.
20.9	57.6	5813.7	500.0	-12.1	-21.7	275.0	14.2	14.2	-1.2	318.3	322.9	1.4	48.5	9.2	48.
22.3	61.0	6206.2	475.0	-14.1	-42.7	293.0	15.0	13.9	-5.8	320.5	321.2	0.2	6.7	10.0	54.
23.7	64.6	6614.4	450.0	-14.5	-59.2	303.5	15.7	14.0	-7.2	324.9	325.0	0.0	1.0	10.6	61.
25.1	68.0	7045.0	425.0	-17.9	-61.1	300.6	17.2	14.8	-4.7	326.5	326.6	0.0	1.0	11.4	68.
24.5	71.5	7495.7	400.0	-21.3	-63.5	301.4	18.5	15.9	-9.6	327.3	327.4	0.0	1.0	12.4	74.
29.4	75.4	7967.7	375.0	-25.6	-58.5	303.6	18.4	15.4	-10.2	327.8	327.9	0.0	2.5	13.7	80.
30.2	79.5	8463.2	350.0	-30.1	-59.6	307.4	18.4	14.6	-11.2	328.1	329.3	0.0	3.7	15.1	85.
32.0	83.6	8987.4	325.0	-33.5	-61.4	312.7	21.5	15.9	-14.6	330.5	330.6	0.0	4.1	16.8	90.
34.1	88.0	9544.2	300.0	-37.9	-62.5	307.9	21.7	17.1	-13.3	332.0	332.1	0.0	4.6	18.5	96.
36.4	92.8	10137.5	275.0	-43.3	99.9	309.8	23.6	19.1	-15.1	332.6	999.9	99.9	999.9	21.5	100.
38.8	97.6	10772.6	250.0	-48.1	99.9	312.4	24.0	17.7	-16.2	334.5	999.9	99.9	999.9	24.7	104.
41.4	102.8	11459.0	225.0	-52.9	99.9	309.2	23.4	18.1	-14.8	337.6	999.9	99.9	999.9	27.4	108.
44.2	108.4	12210.4	200.0	-57.2	99.9	297.3	27.6	24.5	-12.6	342.2	999.9	99.9	999.9	31.9	110.
47.1	115.0	13049.8	175.0	-60.8	99.9	294.5	32.0	29.1	-13.3	349.6	999.9	99.9	999.9	37.7	110.
50.4	121.7	14002.5	150.0	-63.8	99.9	302.0	26.1	22.1	-13.8	360.3	999.9	99.9	999.9	43.1	111.
54.2	129.0	15109.6	125.0	-63.2	99.9	305.5	18.3	14.9	-10.6	390.4	999.9	99.9	999.9	48.3	113.
58.9	137.3	16461.6	100.0	-68.6	99.9	306.9	9.1	7.4	-5.6	495.2	999.9	99.9	999.9	51.7	113.
64.6	145.7	18145.8	75.0	-66.6	99.9	355.9	4.3	0.3	-4.3	433.7	999.9	99.9	999.9	53.4	114.
73.0	154.5	20494.1	50.0	-61.4	99.9	70.9	7.2	-6.8	-2.3	498.9	999.9	99.9	999.9	52.2	116.
95.7	164.0	25101.9	25.0	-49.7	99.9	999.9	999.9	99.9	99.9	641.7	999.9	99.9	999.9	48.7	120.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 265
MIDLAND, TEXAS

27 MAY 1977
1100 GMT

146 9. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.5	877.0	903.6	20.6	17.8	200.0	5.2	1.8	4.9	301.9	340.0	14.3	84.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	15.7	964.9	900.0	20.5*	99.9	200.7	9.9	3.5	9.2	302.6	999.9	99.9	999.9	0.3	18.
1.2	17.5	1203.4	875.0	18.9	17.6	200.3	11.2	3.9	10.5	303.4	342.9	14.7	92.1	0.7	19.
2.3	19.9	1457.9	850.0	18.2	14.0	222.6	10.0	6.9	7.4	305.2	338.0	12.0	76.7	1.4	21.
3.3	22.1	1715.6	825.0	20.6	8.8	271.0	7.0	7.0	-0.1	310.3	335.0	8.7	46.6	1.8	33.
4.4	24.6	1981.7	800.0	19.6	4.9	295.4	5.1	4.5	-2.3	312.0	331.8	6.8	38.1	2.0	44.
5.4	26.9	2253.6	775.0	18.0	4.6	293.8	4.5	4.1	-1.8	313.2	333.5	7.0	41.7	2.1	52.
6.9	29.4	2532.0	750.0	14.6	2.8	281.2	4.9	4.8	-1.0	312.4	330.3	6.1	44.1	2.3	59.
8.0	32.0	2819.2	725.0	12.7	1.6	264.9	4.4	4.4	0.4	312.9	330.4	6.0	48.2	2.6	64.
9.2	34.7	3111.9	700.0	9.9	0.6	246.4	4.1	3.7	1.6	313.3	330.1	5.7	52.6	2.8	65.
10.4	37.1	3417.9	675.0	7.9	-0.6	238.5	4.9	4.2	2.5	314.5	330.5	5.4	54.9	3.1	64.
11.5	39.9	3722.7	650.0	4.7	-3.6	246.1	6.0	5.5	2.4	314.2	327.8	4.5	55.2	3.5	64.
12.9	42.6	4041.3	625.0	2.1	-6.2	256.2	8.8	8.6	2.1	314.9	326.5	3.9	54.2	4.1	65.
14.1	45.4	4369.0	600.0	-1.1	-9.0	259.2	12.0	11.8	2.2	314.9	324.7	3.2	55.2	4.9	67.
15.4	48.4	4707.0	575.0	-3.9	-9.7	255.9	15.6	15.1	3.8	315.4	325.1	3.2	64.0	5.9	69.
16.9	51.1	5056.4	550.0	-6.5	-14.9	252.6	19.0	19.2	5.7	316.3	323.4	2.3	52.9	7.4	70.
18.2	54.3	5417.7	525.0	-9.3	-14.8	259.3	17.9	17.4	3.3	317.2	322.5	1.7	46.1	9.0	71.
19.8	57.1	5794.1	500.0	-10.7	-45.3	275.9	17.2	17.1	-1.8	320.0	320.4	0.1	3.9	10.5	73.
21.4	60.4	6186.4	475.0	-13.1	-45.9	281.2	21.3	20.9	-4.1	321.9	322.3	0.1	4.4	12.1	77.
22.9	63.9	6597.2	450.0	-14.7	-48.8	279.2	22.2	21.9	-3.6	324.7	325.1	0.1	3.6	14.1	80.
24.7	66.9	7027.3	425.0	-17.6	-52.2	285.3	19.2	18.5	-5.1	326.4	326.7	0.1	3.1	16.1	83.
26.4	70.4	7477.6	400.0	-21.7	-51.5	285.4	19.5	17.9	-5.0	326.7	327.1	0.1	4.8	17.8	86.
28.2	73.9	7948.4	375.0	-25.9	-49.3	290.8	20.1	18.8	-7.2	327.3	327.7	0.1	8.9	19.9	88.
30.2	77.8	8443.4	350.0	-30.3	-52.0	303.4	22.0	19.4	-12.1	328.0	328.3	0.1	9.8	22.0	91.
32.1	81.5	8967.1	325.0	-33.9	-55.2	304.6	26.1	21.5	-14.8	330.0	330.2	0.1	9.5	24.4	95.
34.3	85.6	9523.5	300.0	-38.2	-56.6	301.3	29.4	25.1	-15.3	331.6	331.8	0.1	11.9	27.5	98.
36.4	89.9	10116.4	275.0	-42.9	99.9	303.7	31.4	26.2	-17.2	333.3	999.9	99.9	999.9	31.1	101.
38.9	94.4	10752.9	250.0	-48.0	99.9	306.9	34.1	27.3	-20.4	334.7	999.9	99.9	999.9	35.5	104.
41.2	99.2	11441.5	225.0	-52.1	99.9	308.5	37.6	21.6	-17.2	338.6	999.9	99.9	999.9	39.7	107.
44.1	104.3	12196.6	200.0	-55.4	99.9	296.5	27.7	24.7	-12.4	345.0	999.9	99.9	999.9	44.2	109.
47.3	110.0	13040.6	175.0	-58.9	99.9	288.5	30.0	28.5	-9.5	352.7	999.9	99.9	999.9	49.7	109.
50.8	115.9	14001.0	150.0	-62.1	99.9	295.6	25.1	22.5	-11.3	363.2	999.9	99.9	999.9	55.6	109.
54.4	122.9	15107.4	125.0	-65.8	99.9	307.3	19.5	16.5	-10.4	370.4	999.9	99.9	999.9	60.3	110.
58.9	130.0	16470.1	100.0	-65.9	99.9	308.1	8.4	6.6	-5.2	400.5	999.9	99.9	999.9	64.1	111.
65.2	137.7	18219.9	75.0	-66.1	99.9	317.0	4.8	3.3	-3.5	434.3	999.9	99.9	999.9	65.9	111.
72.8	145.7	20225.1	50.0	-69.1	99.9	71.1	6.8	-6.5	-2.2	504.3	999.9	99.9	999.9	65.1	112.
87.0	154.0	24128.9	25.0	-52.1	99.9	34.4	4.7	-2.9	-3.7	634.9	999.9	99.9	999.9	61.0	115.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 727
NASHVILLE, TENNESSEE

27 MAY 1977
1100 GMT

157 11. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MR PTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.9	180.0	990.4	19.1	15.8	360.0	0.0	0.0	0.0	292.1	323.6	12.3	92.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.5	9.9	315.2	995.9	19.1	14.1	234.1	14.7	12.5	7.9	294.6	329.8	12.6	92.7	0.4	292.
1.0	10.7	599.5	990.0	19.2	15.6	189.9	9.8	1.7	9.7	295.7	327.9	11.8	75.5	0.7	354.
2.0	11.1	764.9	985.0	17.6	14.5	170.3	6.6	-1.1	6.6	297.3	327.2	11.3	92.0	1.1	355.
3.1	15.6	1007.6	980.0	16.3	12.6	146.6	5.9	-3.2	4.9	299.0	326.5	10.1	75.7	1.4	352.
4.2	17.7	1244.0	975.0	15.6	11.8	127.9	6.0	-4.7	3.7	300.0	326.9	10.0	78.1	1.7	346.
5.2	23.2	1499.9	970.0	14.1	9.9	114.6	6.5	-5.9	2.7	300.9	329.6	9.1	76.1	1.9	338.
6.3	22.5	1762.0	825.0	13.2	6.8	101.8	6.9	-6.8	1.4	302.5	323.3	7.5	65.1	2.2	330.
7.2	25.1	2009.4	800.0	11.5	5.4	92.2	7.0	-7.0	0.3	303.4	323.1	7.1	66.4	2.5	323.
8.3	27.5	2245.8	775.0	10.2	4.9	90.5	6.3	-6.2	-1.0	304.8	324.	7.1	69.9	2.9	315.
9.4	30.1	2577.0	750.0	8.0	2.7	72.1	6.7	-6.3	-2.1	305.3	322.9	6.2	68.9	3.0	308.
10.4	32.9	2817.1	725.0	5.9	-0.1	69.7	7.2	-6.7	-2.6	305.9	320.8	5.2	65.6	3.3	302.
11.5	35.5	3107.6	700.0	3.7	-3.8	74.1	8.0	-7.8	-1.9	306.6	318.6	4.2	58.2	3.6	295.
12.7	38.2	3399.4	675.0	3.3	-13.7	79.5	7.4	-7.3	-1.4	309.4	314.4	2.0	27.4	4.1	291.
14.0	40.9	3704.4	650.0	2.9	-14.6	76.2	7.1	-6.9	-1.7	312.3	318.2	1.9	26.2	4.5	287.
15.2	43.9	4021.4	625.0	2.2	-20.1	78.2	9.2	-9.1	-1.7	315.0	319.0	1.2	17.4	5.0	283.
16.5	46.9	4349.5	600.0	0.4	-25.0	79.0	8.8	-8.6	-1.7	316.6	319.4	0.9	12.7	5.5	281.
17.9	50.0	4689.0	575.0	-2.2	-26.5	79.2	9.1	-9.0	-1.7	317.4	320.0	0.8	13.3	6.3	278.
19.2	53.9	5040.7	550.0	-4.3	-27.3	80.8	10.8	-10.8	-0.0	319.0	321.5	0.7	14.6	7.0	277.
20.7	56.8	5404.9	525.0	-7.1	-29.0	93.1	10.0	-10.0	0.5	319.9	322.1	0.7	18.5	8.0	276.
22.1	59.3	5783.1	500.0	-10.0	-30.5	88.3	10.2	-10.2	-0.3	320.8	322.9	0.6	16.7	8.9	276.
23.8	62.9	6174.8	475.0	-13.1	-33.0	75.7	8.9	-8.6	-2.2	321.7	323.5	0.5	16.9	9.9	275.
25.5	66.1	6580.7	450.0	-16.0	-35.5	59.6	7.9	-6.8	-4.0	323.1	324.6	0.4	16.7	10.8	273.
27.1	69.9	7011.6	425.0	-19.2	-37.6	50.5	5.5	-4.3	-3.5	324.4	325.7	0.3	17.7	11.1	270.
29.8	73.9	7452.1	400.0	-22.8	-36.2	36.1	4.1	-2.4	-3.3	325.4	326.9	0.4	28.5	11.4	266.
30.9	77.5	7931.8	375.0	-26.9	-37.6	56.4	3.7	-3.1	-2.1	326.0	327.5	0.4	35.6	11.7	262.
32.7	81.3	8426.1	350.0	-30.3	-42.7	84.1	3.8	-3.8	-0.4	327.9	328.8	0.2	28.2	12.2	247.
35.0	85.5	8949.2	325.0	-34.4	-43.9	74.1	4.1	-4.0	-1.0	329.2	330.1	0.2	27.4	12.6	247.
37.0	89.8	9507.6	300.0	-39.1	-48.4	61.8	3.0	-2.6	-1.4	330.2	330.8	0.2	30.4	13.1	246.
38.5	94.6	10099.9	275.0	-44.4	99.9	67.4	1.5	-1.1	-1.0	330.9	999.9	99.9	999.9	13.3	245.
42.4	99.4	10722.9	250.0	-50.2	99.9	30.9	2.2	-1.2	-1.9	331.4	999.9	99.9	999.9	13.5	244.
45.5	104.5	11402.5	225.0	-55.6	99.9	353.2	4.1	0.5	-4.1	333.4	999.9	99.9	999.9	13.6	242.
48.1	110.2	12141.4	200.0	-62.5	99.9	45.1	4.5	-3.2	-3.2	333.8	999.9	99.9	999.9	13.8	238.
52.5	115.8	12959.1	175.0	-65.8	99.9	266.3	2.1	2.1	0.1	341.3	999.9	99.9	999.9	14.1	238.
56.7	122.5	13902.0	150.0	-61.7	99.9	350.5	3.5	0.6	-3.5	363.8	999.9	99.9	999.9	13.9	236.
61.5	129.5	14977.9	125.0	-63.1	99.9	15.1	2.7	-0.7	-2.6	380.8	999.9	99.9	999.9	14.3	234.
67.8	136.8	16205.3	100.0	-62.9	99.9	329.8	4.9	2.5	-4.2	405.4	999.9	99.9	999.9	14.1	249.
74.5	143.9	17571.7	75.0	-63.1	99.9	334.4	6.6	2.8	-5.9	440.8	999.9	99.9	999.9	15.1	248.
83.9	151.3	20706.4	50.0	-57.6	99.9	69.7	6.2	-5.8	-2.2	507.9	999.9	99.9	999.9	18.5	243.
101.4	159.0	25150.6	25.0	-49.9	99.9	999.9	999.9	99.9	99.9	641.1	999.9	99.9	999.9	24.8	245.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 340
LITTLE ROCK, ARKANSAS

27 MAY 1977
1100 GMT

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

159 17. 1

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	4.7	173.0	991.5	19.4	17.0	300.0	3.6	1.1	-1.8	293.3	325.4	12.4	88.0	0.0	0.
99.9	99.0	99.0	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.6	9.6	318.1	975.0	20.4	16.1	152.9	2.2	-1.0	1.0	299.7	331.5	11.9	80.0	0.3	102.
1.5	10.6	588.7	950.0	22.1	14.4	211.5	0.8	0.4	0.7	300.6	330.1	11.0	68.2	0.2	91.
2.4	11.0	777.5	935.0	20.8	12.9	185.4	0.4	0.0	0.4	300.5	328.0	10.2	60.6	0.3	88.
3.3	13.4	1014.1	900.0	18.7	11.8	175.4	0.7	-0.1	0.7	300.8	327.2	9.7	64.3	0.3	82.
4.3	17.7	1345.3	875.0	16.5	9.8	162.0	1.1	-0.3	1.1	301.0	324.7	8.7	64.2	0.3	71.
5.3	20.3	1501.5	850.0	14.1	8.7	159.2	1.4	-0.6	1.3	300.9	323.7	8.4	70.1	0.3	53.
6.3	22.6	1753.1	825.0	12.0	8.2	160.1	2.2	-0.8	2.1	301.3	324.1	8.3	77.3	0.3	33.
7.3	25.3	2010.5	800.0	9.9	7.6	130.7	1.4	-1.1	0.9	301.7	324.3	8.3	85.9	0.4	18.
8.4	27.9	2277.8	775.0	8.5	-0.7	43.9	1.4	-1.0	-1.0	303.0	316.4	4.7	52.4	0.4	11.
9.4	30.4	2546.6	750.0	7.0	-2.5	346.5	2.0	0.5	-2.0	304.1	316.0	4.1	46.4	0.3	12.
10.5	33.2	2822.6	725.0	5.1	-3.8	334.2	2.3	0.9	-2.1	305.1	316.6	4.0	52.2	0.2	28.
11.7	35.9	3099.1	700.0	4.1	1.1	329.1	2.4	1.4	-2.2	307.0	324.0	5.9	80.8	0.2	63.
12.8	38.6	3374.9	675.0	2.8	-1.3	335.7	3.6	1.5	-1.3	308.8	323.8	5.2	74.0	0.3	116.
13.9	41.2	3650.9	650.0	1.6	-5.6	341.5	4.5	1.4	-4.3	310.8	322.4	3.9	58.5	0.6	136.
15.0	44.1	4025.8	625.0	-0.2	-7.4	342.7	4.7	1.4	-4.5	312.2	322.7	3.5	58.2	0.9	148.
16.2	47.1	4350.9	600.0	-2.0	-9.1	348.1	5.4	1.1	-5.3	313.9	323.5	3.2	58.2	1.2	151.
17.5	50.1	4687.8	575.0	-4.6	-12.0	340.6	5.4	2.1	-6.0	314.6	322.7	2.5	56.6	1.7	155.
18.8	53.0	5024.5	550.0	-6.1	-25.1	337.2	7.1	2.7	-6.5	316.9	319.9	0.9	20.4	2.2	158.
20.1	55.9	5360.8	525.0	-7.7	-23.1	341.0	5.7	1.9	-5.4	319.2	323.0	1.1	27.7	2.7	156.
21.4	58.1	5775.9	500.0	-10.9	-16.0	353.5	4.1	0.5	-4.1	319.8	326.7	2.2	65.6	3.1	157.
22.9	62.4	6140.7	475.0	-12.9	-23.4	7.5	2.1	-0.1	-2.1	322.0	326.0	1.2	40.9	3.3	159.
24.5	65.9	6570.3	450.0	-16.1	-22.7	291.9	1.9	1.7	-0.7	323.0	327.5	1.4	56.5	3.5	159.
26.1	69.1	7007.3	425.0	-19.1	-27.9	233.1	2.4	2.0	1.5	324.5	327.5	0.9	45.3	3.5	156.
27.4	72.6	7455.8	400.0	-21.9	-34.8	209.4	3.5	1.7	3.0	326.5	328.2	0.5	29.8	3.4	151.
28.7	76.1	7937.6	375.0	-25.7	-37.0	172.6	1.9	-0.2	1.9	327.6	328.1	0.4	33.8	3.1	147.
31.7	80.3	8423.8	350.0	-29.7	-36.8	257.9	2.2	2.2	0.1	328.7	330.3	0.5	50.0	3.1	146.
33.9	84.2	8948.0	325.0	-33.8	-41.3	49.2	4.5	4.5	0.4	330.4	331.5	0.3	45.7	3.4	145.
35.9	88.1	9503.9	300.0	-38.4	-45.6	282.0	3.2	3.1	-0.7	331.2	332.0	0.2	46.2	3.8	134.
38.2	92.9	10054.1	275.0	-43.0	99.9	271.1	3.9	3.9	-0.1	332.9	999.9	99.9	999.9	4.1	131.
40.9	97.4	10771.4	250.0	-48.0	99.9	246.4	3.8	3.5	1.5	334.7	999.9	99.9	999.9	4.5	124.
43.3	102.9	11414.1	225.0	-54.4	99.9	231.6	2.0	1.5	1.2	335.2	999.9	99.9	999.9	4.7	119.
44.3	107.9	12159.7	200.0	-61.0	99.9	290.4	2.4	2.2	-0.8	336.2	999.9	99.9	999.9	5.0	116.
48.8	113.3	12980.0	175.0	-64.7	99.9	323.7	5.0	3.0	-4.0	343.1	999.9	99.9	999.9	5.4	115.
51.0	119.9	13821.4	150.0	-62.6	99.9	298.1	7.4	7.1	-2.3	362.2	999.9	99.9	999.9	6.9	119.
57.3	126.3	14846.5	125.0	-62.8	99.9	277.0	5.8	5.8	-0.7	391.4	999.9	99.9	999.9	8.8	118.
62.6	133.7	15421.4	100.0	-63.0	99.9	291.5	3.9	3.4	-3.9	406.0	999.9	99.9	999.9	9.8	119.
69.3	141.3	16196.9	75.0	-63.4	99.9	56.3	2.9	-2.4	-1.6	440.1	999.9	99.9	999.9	9.8	121.
74.0	149.0	16707.7	50.0	-58.1	99.9	68.9	6.1	-5.7	-2.2	506.7	999.9	99.9	999.9	8.7	128.
92.2	157.7	25149.3	25.0	-49.4	99.9	105.2	9.8	-9.1	2.5	643.2	999.9	99.9	999.9	6.9	178.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 349
MONETT, MISSOURI

22 MAY 1977
1100 GMT

190 28. 6

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	0.0	428.0	961.1	18.1	15.0	160.0	6.2	-1.4	3.9	294.6	324.0	11.2	82.0	0.0	0.
99.0	99.0	99.0	1000.0	99.0	99.9	99.0	99.9	99.9	99.0	99.9	999.9	99.9	999.9	999.9	999.
99.0	99.0	99.0	975.0	99.0	99.9	99.0	99.9	99.9	99.0	99.0	999.9	99.9	999.9	999.9	999.
0.2	10.0	539.4	949.0	20.4	12.6	187.6	0.4	0.4	0.0	297.9	324.0	9.8	60.8	0.4	349.
1.2	12.6	749.0	925.0	21.1	13.6	184.6	10.7	0.3	10.7	300.2	329.6	10.4	62.2	0.9	357.
1.9	15.1	1004.5	900.0	19.8	11.9	186.3	11.5	1.3	11.5	300.9	327.4	9.8	63.9	1.3	0.
2.8	17.4	1267.7	875.0	16.2	11.5	190.1	11.1	2.0	10.9	300.6	327.1	9.8	73.8	1.9	2.
3.4	20.0	1489.7	850.0	14.1	8.6	198.4	10.4	3.3	9.9	303.0	329.5	8.3	69.6	2.4	5.
4.4	22.3	1745.7	825.0	13.1	5.2	207.9	9.3	4.7	8.2	302.4	321.3	6.9	58.9	3.0	9.
4.5	25.0	2001.7	800.0	11.2	4.1	212.1	9.2	4.4	7.0	303.1	321.1	6.5	61.9	3.4	11.
5.4	27.5	2249.6	775.0	8.7	3.0	207.2	8.6	3.9	7.6	303.2	320.5	6.2	67.8	3.9	14.
7.4	30.1	2519.5	750.0	7.0	-1.3	199.2	8.1	2.5	7.7	304.2	317.5	4.6	58.2	4.3	15.
8.4	32.9	2814.4	725.0	5.0	-0.9	198.2	7.5	2.1	7.1	304.9	319.1	5.0	75.7	4.8	15.
9.4	35.5	3102.2	700.0	3.3	-7.4	195.7	6.8	1.8	6.6	306.2	315.4	3.1	48.2	5.2	15.
10.5	38.2	3396.1	675.0	1.7	-9.4	192.3	6.5	1.3	6.5	307.5	315.5	2.6	43.6	5.6	15.
11.4	40.9	3689.7	650.0	1.2	-20.7	187.9	5.7	-2.1	5.3	310.3	313.9	1.1	17.7	6.0	14.
12.5	43.9	4015.0	625.0	0.5	-10.1	159.0	5.5	-2.1	5.1	313.2	321.9	2.8	44.6	6.3	11.
13.6	46.9	4342.0	600.0	-1.4	-10.8	165.8	5.6	-1.4	5.4	314.5	323.1	2.8	48.8	6.6	10.
14.9	49.8	4670.8	575.0	-3.9	-11.8	163.6	5.3	-1.5	5.1	315.4	323.8	2.7	54.4	6.9	9.
15.9	52.6	5039.7	550.0	-6.0	-10.7	172.4	4.5	-0.6	4.6	317.0	326.5	3.1	69.2	7.3	8.
17.3	55.7	5399.7	525.0	-8.4	-14.4	183.1	5.3	0.3	5.3	318.4	325.9	2.4	61.6	7.6	7.
18.5	58.9	5769.8	500.0	-11.3	-16.3	177.4	5.6	-0.2	5.6	319.3	326.1	2.1	66.3	8.0	7.
19.9	62.1	6141.4	475.0	-13.2	-19.1	182.7	7.5	0.4	7.5	321.6	327.4	1.8	61.3	8.5	6.
21.2	65.4	6521.0	450.0	-15.2	-24.3	186.9	8.7	1.2	9.7	324.1	328.1	1.2	48.4	9.2	6.
22.6	69.0	7001.3	425.0	-18.2	-27.7	189.3	10.2	1.7	10.1	325.4	328.8	0.9	43.0	10.1	6.
24.0	72.2	7451.1	400.0	-22.0	-31.6	208.7	9.9	4.7	8.7	326.5	328.8	0.7	40.9	10.8	7.
25.7	76.0	7933.2	375.0	-26.1	-35.6	223.1	8.9	6.0	6.4	327.1	328.9	0.5	40.0	11.5	8.
26.8	79.9	8414.6	350.0	-26.3	-39.4	231.9	7.0	5.5	4.7	329.2	330.5	0.4	36.9	12.1	11.
28.5	83.7	8943.5	325.0	-33.9	-44.3	219.3	6.5	4.1	5.1	330.9	331.7	0.2	31.7	12.6	13.
30.3	87.7	9509.2	300.0	-39.1	-48.6	213.0	5.4	2.9	4.5	331.7	332.3	0.1	31.0	13.2	14.
32.1	92.2	10039.5	275.0	-43.2	99.9	177.4	3.4	-0.2	3.4	332.7	999.9	99.9	999.9	13.7	15.
34.2	96.6	10737.3	250.0	-49.5	99.9	167.2	4.0	-0.9	3.9	334.0	999.9	99.9	999.9	14.0	14.
36.5	101.4	11411.7	225.0	-54.1	99.9	151.2	5.7	-2.9	5.0	335.6	999.9	99.9	999.9	14.6	12.
38.9	106.8	12157.8	200.0	-59.6	99.9	126.1	3.6	-2.9	2.1	338.4	999.9	99.9	999.9	15.1	10.
41.5	112.3	12991.2	175.0	-65.4	99.9	129.1	3.7	-2.3	2.3	342.0	999.9	99.9	999.9	15.2	9.
44.4	118.3	13974.8	150.0	-70.4	99.9	230.9	5.4	5.5	5.7	346.0	999.9	99.9	999.9	16.1	10.
48.0	125.3	15059.8	125.0	-62.3	99.9	247.7	6.3	6.9	2.0	342.2	999.9	99.9	999.9	16.7	13.
52.6	133.0	14474.5	100.0	-60.7	99.9	317.4	3.9	2.0	-2.2	410.5	999.9	99.9	999.9	17.1	16.
57.9	143.7	19203.9	75.0	-63.8	99.9	44.4	2.5	-2.1	-1.9	439.1	999.9	99.9	999.9	16.5	16.
65.5	160.5	20727.8	50.0	-58.7	99.9	61.2	6.8	-5.9	-3.3	505.3	999.9	99.9	999.9	15.0	11.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 353
OKLAHOMA CITY, OKLAHOMA

27 MAY 1977
1100 GMT

198 16. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.9	393.0	965.1	16.1	15.0	310.0	4.2	3.2	-2.7	292.1	321.0	11.2	93.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	11.2	574.9	950.0	15.5	14.5	116.6	6.9	-3.1	3.1	299.9	321.5	11.0	93.7	0.3	84.
1.1	13.6	741.9	925.0	15.2	11.6	90.2	7.4	-1.4	0.0	304.8	319.5	9.3	76.2	0.2	48.
1.8	15.8	904.4	900.0	16.3	9.2	-0.9	1.3	0.0	-1.3	299.3	320.3	8.1	62.7	0.1	52.
2.7	18.3	1274.2	875.0	14.6	8.7	288.5	1.4	1.7	-0.4	300.0	322.1	8.1	63.2	0.1	71.
3.5	20.7	1479.9	850.0	13.9	7.1	284.5	2.9	2.6	-1.3	300.7	321.2	7.5	63.4	0.2	88.
4.3	23.2	1771.6	825.0	13.6	5.9	286.7	5.6	5.0	-2.5	302.3	327.0	7.1	62.2	0.4	102.
5.2	25.7	1983.8	800.0	11.3	4.6	301.0	4.6	4.0	-2.4	303.1	321.7	6.7	63.7	0.7	109.
6.1	28.2	2254.0	775.0	9.0	3.7	286.2	3.2	3.1	-0.9	303.5	321.6	6.5	66.3	0.9	112.
7.1	30.9	2524.7	750.0	6.2	2.5	245.8	3.5	3.5	1.6	303.3	320.5	6.1	77.2	1.1	107.
8.3	33.7	2802.3	725.0	4.1	1.6	228.1	6.6	4.5	4.7	304.3	321.0	6.9	82.1	1.3	93.
9.4	36.2	3088.0	700.0	3.9	3.9	226.0	11.8	8.2	8.5	306.9	327.3	7.3	101.5	1.7	79.
10.9	39.0	3383.1	675.0	1.6	-1.8	229.5	14.7	9.5	9.5	307.4	321.9	5.0	76.3	2.8	65.
12.1	41.5	3686.9	650.0	0.6	-4.8	236.8	16.6	11.2	9.1	307.7	321.8	4.1	67.2	4.3	62.
13.3	44.6	4001.9	625.0	-1.3	-7.5	245.4	16.9	13.9	9.1	311.0	321.4	3.5	62.8	5.2	62.
14.5	47.5	4325.4	600.0	-3.9	-8.3	252.6	15.3	15.4	7.1	311.7	322.0	3.4	71.1	6.3	63.
15.6	50.6	4660.4	575.0	-6.0	-11.3	255.9	14.3	14.6	4.6	313.0	321.6	2.8	66.0	7.3	65.
16.7	53.7	5007.2	550.0	-8.3	-14.9	258.4	15.7	13.9	3.5	314.2	321.0	2.2	65.2	8.2	66.
17.4	56.8	5366.4	525.0	-11.2	-20.5	259.7	15.5	15.4	3.2	315.0	319.5	1.4	65.9	9.1	67.
19.0	60.0	5738.9	500.0	-12.7	-33.4	261.7	15.5	15.2	2.6	317.6	319.1	0.5	15.7	10.3	69.
20.5	63.5	6129.4	475.0	-14.4	-54.2	254.4	20.6	15.7	2.3	320.2	320.4	0.0	1.8	12.1	71.
22.2	66.9	6538.6	450.0	-17.7	-58.5	246.4	23.8	19.9	5.6	321.0	321.1	0.0	1.4	14.2	70.
23.5	70.4	6969.0	425.0	-20.4	-47.0	231.3	23.9	21.8	9.5	321.9	323.4	0.1	7.7	16.0	69.
25.1	74.1	7423.9	400.0	-23.7	-39.3	214.9	22.1	18.6	14.9	324.2	325.3	0.3	22.2	17.9	66.
26.6	79.0	7907.1	375.0	-26.5	-41.9	203.4	21.0	12.7	16.1	326.9	327.5	0.2	21.5	19.5	63.
28.3	81.9	8421.9	350.0	-30.1	-42.7	193.1	21.1	8.3	19.3	328.2	328.1	0.2	27.8	21.2	59.
29.9	85.9	8968.2	325.0	-33.9	-47.0	177.7	20.9	4.8	20.6	330.0	330.6	0.2	22.7	22.6	55.
32.0	91.3	9551.1	300.0	-38.2	-47.6	171.0	21.5	-0.9	20.8	331.5	332.2	0.2	26.3	23.8	49.
34.2	95.0	10044.1	275.0	-42.7	99.9	166.8	20.3	-3.4	21.3	333.1	999.9	99.9	999.9	25.3	44.
36.6	99.9	10691.5	250.0	-47.5	99.9	179.1	19.4	-3.6	20.0	335.5	999.9	99.9	999.9	27.2	39.
38.9	104.5	11347.9	225.0	-54.0	99.9	185.7	20.4	-0.3	19.4	335.8	999.9	99.9	999.9	29.4	36.
41.3	110.5	12113.8	200.0	-59.5	99.9	199.6	23.5	3.1	20.2	338.6	999.9	99.9	999.9	32.5	34.
44.1	115.9	12940.7	175.0	-62.5	99.9	223.5	23.1	7.5	22.3	343.7	999.9	99.9	999.9	36.4	33.
47.0	123.0	13887.9	150.0	-62.8	99.9	252.1	10.0	15.6	17.0	346.7	999.9	99.9	999.9	38.0	35.
51.2	130.3	14825.8	125.0	-59.9	99.9	250.1	9.2	9.5	9.1	361.9	999.9	99.9	999.9	40.2	38.
55.8	137.8	15801.9	100.0	-62.9	99.9	277.1	6.2	7.7	2.9	386.5	999.9	99.9	999.9	42.0	38.
61.9	144.7	16767.6	75.0	-64.4	99.9	275.6	3.6	6.2	-0.9	406.2	999.9	99.9	999.9	42.2	40.
70.0	154.3	20679.1	50.0	-67.4	99.9	68.1	7.1	3.6	-0.4	437.9	999.9	99.9	999.9	39.8	46.
81.3	161.0	25086.1	25.0	-53.5	99.9	89.9	5.3	-6.6	-2.7	508.4	999.9	99.9	999.9	35.9	34.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 262
AMARILLO, TEXAS

27 MAY 1977
1100 GMT

142 0. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.9	1094.0	995.1	15.4	14.5	200.0	6.3	2.2	5.9	298.8	331.2	12.2	97.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	900.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	17.4	1131.9	875.0	15.1	14.3	205.5	11.7	5.0	10.6	299.5	331.0	11.8	94.9	0.3	19.
1.4	19.9	1477.5	850.0	13.8	9.2	212.8	11.9	6.4	10.0	300.6	324.4	8.7	74.2	0.9	23.
2.6	22.0	1801.9	825.0	18.9	-38.4	236.9	8.8	7.0	4.8	308.6	309.2	0.2	1.0	1.6	33.
3.7	24.4	1954.4	800.0	16.9	-39.7	257.7	7.1	6.9	1.5	309.0	309.6	0.1	1.0	2.0	41.
4.7	26.7	2222.8	775.0	14.2	-41.2	262.4	7.4	7.3	0.9	309.1	309.6	0.1	1.0	2.4	47.
5.7	29.2	2497.9	750.0	12.0	-39.0	265.4	9.1	9.1	0.5	309.6	310.3	0.2	1.6	2.7	52.
6.6	31.8	2775.5	725.0	9.3	-22.1	263.1	10.0	9.9	1.2	309.7	312.6	0.9	9.0	3.2	58.
7.7	34.4	3049.0	700.0	6.6	-19.5	259.0	12.4	12.2	2.4	309.8	313.5	1.2	13.3	3.9	62.
8.9	36.8	3345.9	675.0	4.3	-21.9	254.0	12.1	11.6	3.3	310.4	313.6	1.0	12.7	4.7	65.
10.1	39.6	3670.9	650.0	1.2	-26.7	251.9	11.4	10.9	3.5	310.3	312.5	0.7	10.6	5.6	66.
11.5	42.1	3995.0	625.0	-0.5	-33.3	249.9	11.8	11.1	4.1	311.5	312.8	0.4	8.4	6.5	67.
13.0	44.9	4309.5	600.0	-4.4	-37.5	252.5	11.8	11.2	3.5	311.0	311.9	0.3	8.7	7.6	67.
14.7	47.8	4642.2	575.0	-6.7	-49.2	245.0	11.9	10.8	5.0	312.2	312.4	0.1	1.9	8.8	68.
16.0	50.5	4987.2	550.0	-9.6	-56.0	243.6	12.4	11.1	5.5	312.7	312.9	0.0	1.0	9.8	67.
17.4	53.4	5348.7	525.0	-11.8	-57.4	253.9	12.7	12.2	3.5	314.2	314.3	0.0	1.0	10.9	67.
19.9	56.3	5716.3	500.0	-14.5	-59.1	265.7	14.1	14.1	1.1	315.4	315.5	0.0	1.0	11.9	68.
20.0	59.4	6102.4	475.0	-17.5	-61.0	272.1	17.0	17.0	-0.6	316.3	316.4	0.0	1.0	12.9	70.
21.2	62.7	6505.7	450.0	-19.9	-62.6	282.3	21.0	20.5	-4.5	318.2	318.3	0.0	1.0	14.1	73.
22.5	66.9	6924.9	425.0	-23.5	-64.9	294.0	25.3	24.5	-6.1	318.9	318.9	0.0	1.0	15.7	76.
24.4	69.3	7367.7	400.0	-25.5	-66.2	281.8	29.3	28.7	-6.0	321.8	321.9	0.0	1.0	18.5	80.
24.2	72.7	7832.7	375.0	-29.3	-68.7	284.0	27.3	26.5	-6.6	322.8	322.9	0.0	1.0	21.5	83.
29.0	76.5	8320.7	350.0	-33.8	-71.7	290.7	29.0	27.3	-9.8	323.1	323.2	0.0	1.0	24.2	86.
29.8	80.4	8837.7	325.0	-36.5	-73.5	298.9	33.7	29.5	-15.3	326.4	326.4	0.0	1.0	26.6	89.
31.5	84.3	9387.8	300.0	-41.0	99.9	299.9	38.8	33.7	-19.3	327.7	999.9	99.9	999.9	30.4	93.
33.3	84.3	9975.6	275.0	-47.4	99.9	299.5	45.9	39.8	-22.6	332.4	999.9	99.9	999.9	34.6	97.
35.2	92.8	10610.7	250.0	-47.9	99.9	305.4	39.9	32.5	-23.2	334.8	999.9	99.9	999.9	39.4	100.
37.2	97.4	11298.1	225.0	-52.1	99.9	299.6	30.0	26.1	-14.3	338.4	999.9	99.9	999.9	43.4	102.
40.2	102.4	12057.1	200.0	-53.6	99.9	288.0	29.0	26.6	-8.6	347.9	999.9	99.9	999.9	47.8	103.
42.5	108.0	12911.4	175.0	-56.9	99.9	294.4	25.9	25.1	-6.4	356.0	999.9	99.9	999.9	51.5	102.
45.7	113.9	13876.0	150.0	-60.1	99.9	275.4	24.6	24.5	-2.3	366.8	999.9	99.9	999.9	55.6	103.
49.9	120.3	15017.6	125.0	-61.4	99.9	282.7	17.4	17.0	-3.7	383.8	999.9	99.9	999.9	60.4	103.
53.3	127.3	16390.1	100.0	-64.5	99.9	253.8	6.9	6.6	1.9	403.1	999.9	99.9	999.9	63.4	102.
60.1	135.7	19149.2	75.0	-65.1	99.9	240.2	4.5	3.9	2.3	436.6	999.9	99.9	999.9	64.8	101.
68.1	143.3	20479.4	50.0	-57.0	99.9	56.4	5.8	-4.9	-3.2	509.2	999.9	99.9	999.9	64.1	102.
81.2	151.7	25103.1	25.0	-53.3	99.9	79.9	7.2	-7.1	-1.3	631.9	999.9	99.9	999.9	59.0	108.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 433
SALEM, ILLINOIS

27 MAY 1977
1130 GMT

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

1ST 12. 1

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.2	175.0	990.8	14.7	10.3	60.0	1.5	-1.4	-0.8	288.6	304.3	8.0	75.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	4.6	313.2	975.0	20.8	5.6	999.9	999.9	99.9	99.9	296.1	312.2	5.9	37.6	999.9	999.
1.3	10.7	578.0	950.0	21.7	-2.4	999.9	999.9	99.9	99.9	299.2	308.9	3.4	19.9	999.9	999.
2.1	12.9	748.2	925.0	20.0	-0.9	999.9	999.9	99.9	99.9	299.9	310.8	3.9	24.6	0.7	303.
4.2	17.4	1283.0	875.0	15.7	1.0	114.4	2.3	-2.1	0.9	299.7	312.9	4.7	38.0	0.9	301.
5.0	19.3	1497.6	850.0	13.4	-6.7	116.2	3.5	-3.2	1.6	300.2	308.2	2.8	24.7	1.1	299.
6.0	22.0	1778.1	825.0	13.1	-41.9	116.1	5.0	-4.5	2.2	302.5	302.9	0.1	1.0	1.3	299.
7.0	24.5	1984.0	803.0	13.9	-41.4	113.0	5.9	-5.4	2.3	306.0	306.4	0.1	1.0	1.7	298.
8.0	26.9	2253.2	775.0	12.4	-42.3	99.7	6.2	-6.1	1.0	307.1	307.5	0.1	1.0	2.0	297.
9.0	29.4	2515.8	750.0	10.5	-43.3	92.1	7.5	-7.7	-1.1	308.3	308.7	0.1	1.0	2.4	292.
10.0	32.0	2817.6	725.0	5.2	-44.3	76.6	9.0	-9.8	-2.1	309.6	309.9	0.1	1.0	2.9	286.
11.1	34.7	3104.9	700.0	7.2	-45.5	85.5	9.0	-9.0	-0.7	310.4	310.8	0.1	1.0	3.4	281.
12.2	37.3	3404.4	675.0	5.1	-46.8	99.0	8.9	-8.8	1.4	311.4	311.7	0.1	1.0	4.0	280.
13.5	40.0	3711.0	650.0	3.6	-47.7	113.9	8.2	-7.5	3.3	313.1	313.3	0.1	1.0	4.6	281.
14.7	42.6	4019.4	625.0	2.5	-49.4	120.1	7.4	-6.4	3.7	315.3	315.6	0.1	1.0	5.2	283.
16.1	45.5	4356.8	600.0	0.6	-49.6	122.7	6.2	-5.2	3.4	316.3	317.1	0.1	1.0	5.7	284.
17.4	48.5	4696.5	575.0	-2.0	-51.2	127.7	5.1	-4.1	3.1	317.7	317.9	0.1	1.0	6.2	286.
19.8	51.4	5047.9	550.0	-4.4	-52.7	131.2	3.5	-2.6	2.3	318.8	319.0	0.0	1.0	6.5	287.
20.3	54.5	5412.4	525.0	-7.3	-54.5	135.6	3.5	-2.5	2.5	319.8	320.0	0.0	1.0	6.7	288.
21.8	57.5	5790.5	500.0	-10.2	-56.3	153.8	5.5	-2.5	5.0	320.7	320.8	0.0	1.0	7.0	290.
23.3	60.9	6183.3	475.0	-13.5	-51.4	157.4	7.0	-2.7	6.5	321.2	321.5	0.1	2.4	7.4	294.
24.7	64.3	6599.6	450.0	-16.2	-50.8	151.3	8.1	-3.9	7.1	322.9	323.2	0.1	3.2	7.9	297.
26.7	67.8	7020.0	425.0	-19.7	-45.2	142.4	9.0	-4.9	6.4	323.8	324.5	0.2	10.5	8.6	299.
27.9	70.9	7467.1	400.0	-23.0	-25.7	144.1	8.0	-4.5	6.7	325.1	329.1	1.2	75.4	9.4	301.
29.9	74.9	7937.7	375.0	-26.2	-34.2	171.1	7.4	-1.2	7.3	327.0	328.9	0.6	46.3	10.2	304.
31.9	78.8	8432.4	350.0	-30.0	-44.0	194.6	5.9	1.5	5.7	328.4	329.2	0.2	23.9	10.5	308.
33.4	82.7	8955.4	325.0	-34.5	-45.5	164.9	7.3	1.9	7.0	329.1	329.8	0.2	26.9	10.8	311.
35.0	86.7	9506.9	300.0	-39.0	-49.6	199.7	8.5	1.3	8.4	330.4	330.9	0.1	31.4	11.3	316.
38.0	91.4	10099.0	275.0	-44.5	99.9	184.9	6.6	0.6	6.5	330.7	999.9	99.9	999.9	12.0	319.
40.7	96.0	10730.0	253.0	-49.1	99.9	177.7	3.5	-0.1	3.5	332.7	999.9	99.9	999.9	12.5	322.
43.0	101.0	11413.0	225.0	-54.0	99.9	146.6	1.5	-0.8	1.2	335.8	999.9	99.9	999.9	12.8	322.
45.0	106.8	12159.5	200.0	-56.0	99.9	66.9	1.7	-1.5	-0.7	339.3	999.9	99.9	999.9	12.9	322.
49.0	112.5	12938.8	175.0	-63.1	99.9	23.7	2.2	-0.9	-2.0	345.5	999.9	99.9	999.9	12.9	320.
52.7	119.3	13775.3	150.0	-62.5	99.9	11.2	3.9	-0.8	-3.8	352.6	999.9	99.9	999.9	12.9	318.
56.8	124.0	15070.7	125.0	-60.4	99.9	53.9	1.9	-1.5	-1.1	345.7	999.9	99.9	999.9	12.2	315.
61.7	134.0	16856.8	100.0	-62.4	99.9	213.3	2.5	1.6	1.9	407.3	999.9	99.9	999.9	12.4	314.
67.0	141.7	19231.6	75.0	-62.8	99.9	44.0	5.7	-4.0	-4.1	441.2	999.9	99.9	999.9	11.6	308.
78.4	152.0	20747.4	50.0	-58.7	99.9	76.2	7.3	-7.1	-1.7	509.9	999.9	99.9	999.9	13.9	297.
99.3	158.5	25228.1	25.0	-46.4	99.9	999.9	999.9	99.9	99.9	643.5	999.9	99.9	999.9	18.9	284.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
+ BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 451
DODGE CITY, KANSAS

27 MAY 1977
1115 GMT

195 13. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.1	791.0	917.9	16.1	12.7	210.0	3.4	1.8	3.1	296.4	323.2	10.1	80.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.0	15.7	959.4	900.0	14.5	14.0	999.9	999.9	99.9	99.9	296.6	326.4	11.3	96.1	999.9	999.
1.5	19.1	1194.7	875.0	13.0	12.3	999.9	999.9	99.9	99.9	297.2	324.8	10.4	95.8	999.9	999.
2.7	20.5	1440.0	850.0	12.2	11.4	226.2	14.8	10.7	10.2	298.9	325.9	10.1	94.9	1.4	37.
3.4	23.0	1691.7	825.0	14.5	6.4	227.2	19.9	14.6	13.5	303.9	324.3	7.3	58.6	2.4	42.
4.3	25.5	1953.2	800.0	13.9	3.2	231.3	19.9	15.5	12.4	305.9	323.1	6.1	48.5	3.6	44.
5.3	28.1	2219.8	775.0	11.7	1.9	235.1	19.1	13.4	9.0	306.4	322.6	5.7	50.7	4.7	46.
6.3	30.9	2492.2	750.0	9.8	-2.5	238.4	12.5	10.5	6.6	307.3	319.3	4.1	40.7	5.5	48.
7.2	33.7	2771.2	725.0	8.8	-6.2	237.7	10.9	9.1	5.8	309.1	319.0	3.3	33.9	6.1	49.
8.3	36.3	3062.8	700.0	6.7	-11.0	235.5	11.9	9.8	6.7	309.9	317.1	2.4	26.9	6.8	50.
9.3	39.2	3359.5	675.0	3.9	-10.5	233.2	12.3	9.8	7.4	310.1	317.8	2.6	34.0	7.5	50.
10.4	42.0	3664.4	650.0	0.9	-9.8	231.4	10.9	8.5	6.8	310.0	318.4	2.8	44.4	8.3	50.
11.5	45.0	3978.7	625.0	-1.9	-11.9	228.0	10.3	7.6	6.9	310.2	317.7	2.5	46.4	9.0	50.
12.7	48.1	4301.9	600.0	-4.9	-11.7	217.8	9.9	6.1	7.8	310.4	318.3	2.6	55.0	9.7	50.
13.9	51.1	4634.9	575.0	-7.7	-12.2	211.1	10.2	5.3	8.7	311.0	319.0	2.6	70.8	10.4	45.
15.1	54.3	4979.1	550.0	-10.4	-17.5	210.7	11.0	5.6	9.4	311.8	317.3	1.8	55.6	11.2	47.
16.5	57.4	5333.2	525.0	-10.8	-56.7	213.6	11.7	6.5	9.7	315.5	315.6	0.0	1.0	12.1	46.
18.1	61.0	5709.8	500.0	-14.2	-43.6	217.9	10.4	6.4	8.2	315.7	316.2	0.2	6.2	13.1	45.
19.6	64.5	6096.7	475.0	-17.6	-37.1	225.5	10.5	7.5	7.3	316.2	317.3	0.3	16.3	14.0	45.
21.0	68.0	6499.0	450.0	-19.9	-34.7	231.5	9.4	7.4	5.9	319.3	319.3	0.3	16.7	14.9	45.
22.5	71.5	6920.9	425.0	-22.7	-42.6	223.0	11.4	7.8	8.3	319.9	320.6	0.2	14.3	15.8	46.
24.1	75.5	7362.8	400.0	-24.3	-51.8	219.7	15.3	9.5	12.7	320.9	321.1	0.1	7.2	17.0	45.
25.6	79.4	7826.7	375.0	-29.1	-68.6	208.0	18.2	7.4	16.6	323.1	323.1	0.0	1.0	18.5	44.
27.2	83.5	8316.6	350.0	-31.5	-70.1	192.1	24.1	5.1	23.6	326.4	326.4	0.0	1.0	20.2	41.
28.9	87.9	8839.8	325.0	-34.0	-42.0	177.4	28.6	-1.1	28.6	329.8	330.8	0.3	44.3	22.4	37.
30.8	92.6	9395.4	300.0	-37.8	-48.2	166.6	31.5	-7.9	32.7	332.2	332.8	0.2	32.6	25.1	31.
32.7	97.2	9980.4	275.0	-43.7	99.9	160.1	35.2	-12.0	33.1	333.3	999.9	99.9	999.9	27.9	25.
34.7	102.2	10624.2	250.0	-48.7	99.9	160.0	35.5	-12.2	33.4	333.7	999.9	99.9	999.9	30.6	20.
37.2	107.8	11339.4	225.0	-54.5	99.9	171.1	34.4	-5.6	33.9	335.0	999.9	99.9	999.9	35.4	14.
39.9	113.6	12057.6	200.0	-57.1	99.9	190.7	24.9	4.0	24.4	342.1	999.9	99.9	999.9	40.5	13.
42.8	119.7	12838.0	175.0	-57.4	99.9	230.0	14.9	11.3	9.5	355.3	999.9	99.9	999.9	43.7	14.
45.9	126.3	13674.2	150.0	-56.3	99.9	218.4	10.5	8.9	6.7	373.0	999.9	99.9	999.9	45.7	15.
49.9	133.7	14594.7	125.0	-60.4	99.9	230.4	13.7	10.6	4.8	385.7	999.9	99.9	999.9	47.8	17.
54.8	141.0	15609.1	100.0	-62.9	99.9	251.0	7.4	7.0	2.6	406.5	999.9	99.9	999.9	50.0	19.
60.7	149.3	16798.5	75.0	-63.5	99.9	299.2	4.7	4.1	-2.2	439.8	999.9	99.9	999.9	50.5	21.
69.1	159.9	20720.9	50.0	-58.9	99.9	56.2	5.3	-4.4	-3.1	511.7	999.9	99.9	999.9	48.7	20.
82.3	144.3	25151.0	25.0	-51.5	99.9	999.9	999.9	99.9	99.9	637.1	999.9	99.9	999.9	48.3	13.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 456
TOPEKA, KANSAS

27 MAY 1977
1100 GMT

127 84. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN.	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	8.5	268.0	978.0	20.0	17.2	130.0	2.6	-2.0	1.7	295.0	328.3	12.8	84.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	8.9	298.5	975.0	20.9	16.5	999.9	99.9	99.9	99.9	296.2	328.3	12.3	76.4	999.9	999.
1.0	11.0	528.2	950.0	22.3	15.7	999.9	999.9	99.9	99.9	299.8	331.6	11.9	66.4	999.9	999.
1.9	13.1	752.2	925.0	20.9	14.3	999.9	999.9	99.9	99.9	300.7	330.7	11.2	65.8	999.9	999.
2.9	15.5	949.0	900.0	19.1	13.2	999.9	999.9	99.9	99.9	301.2	330.1	10.7	68.7	1.2	358.
3.9	17.7	1230.7	875.0	17.0	13.1	183.1	15.0	0.8	15.0	301.5	331.0	10.9	77.9	2.1	1.
4.9	20.1	1477.5	850.0	14.5	13.1	181.3	12.7	0.3	12.7	301.4	331.8	11.3	91.3	2.9	1.
5.9	22.3	1720.7	825.0	12.5	11.1	178.3	13.1	-0.4	12.1	301.3	329.4	10.1	90.9	3.7	1.
6.9	24.7	1987.7	800.0	10.9	5.5	170.7	11.6	-1.9	11.5	302.4	323.0	7.3	71.0	4.6	360.
8.0	27.0	2252.2	775.0	9.5	1.4	167.1	12.2	-2.7	11.9	304.0	319.6	5.5	57.1	5.2	358.
9.2	29.5	2537.5	750.0	7.3	-0.3	167.1	12.2	-2.7	11.9	304.5	318.9	5.0	58.5	6.0	357.
10.3	32.1	2801.7	725.0	4.6	0.2	164.8	11.5	-3.0	11.1	304.6	319.9	5.4	72.9	6.9	355.
11.6	34.7	3087.3	700.0	2.6	-1.5	156.9	11.0	-4.3	10.1	305.4	319.5	4.9	74.4	7.7	354.
12.8	37.1	3381.3	675.0	1.7	-20.6	144.7	11.5	-6.7	9.4	307.6	311.0	1.1	17.2	8.4	352.
14.0	39.8	3635.3	650.0	0.7	-8.9	142.0	14.1	-8.7	11.1	309.8	316.8	3.0	48.5	9.2	349.
15.3	42.3	3999.8	625.0	-0.3	-22.8	146.8	16.1	-9.8	13.4	312.1	315.6	1.1	18.4	10.2	346.
16.6	45.1	4335.3	600.0	-2.4	-11.6	152.3	15.5	-7.2	13.7	313.3	321.4	2.5	49.1	11.5	344.
19.1	49.0	4661.7	575.0	-5.4	-9.6	159.2	14.4	-5.1	13.5	313.7	323.5	3.2	72.2	12.7	343.
19.6	50.8	5010.3	550.0	-6.9	-12.4	167.3	15.5	-3.4	15.1	315.9	324.2	2.7	64.5	14.1	343.
21.0	53.8	5372.1	525.0	-9.5	-11.2	172.1	15.6	-2.1	15.4	317.0	326.6	3.1	87.8	15.3	344.
22.4	56.5	5748.4	500.0	-11.1	-14.7	176.9	15.3	-1.8	15.3	319.5	327.3	2.5	74.9	16.7	345.
24.0	59.8	6140.7	475.0	-13.7	-15.9	185.7	17.7	1.8	17.6	321.0	327.9	2.1	76.3	18.1	346.
25.5	63.0	6550.6	450.0	-15.6	-21.8	186.1	16.9	1.8	16.8	323.6	328.5	1.5	58.7	19.6	348.
27.0	66.1	6979.4	425.0	-18.5	-24.1	181.4	17.1	0.4	17.1	325.3	329.5	1.3	61.0	21.0	349.
28.7	69.4	7428.7	400.0	-21.9	-26.3	181.2	15.4	0.3	15.4	326.7	330.5	1.1	66.6	22.9	350.
30.4	73.0	7900.5	375.0	-25.7	-30.1	182.1	13.7	0.5	13.7	327.6	330.5	0.8	66.2	24.9	351.
32.5	76.7	8397.4	350.0	-29.8	-32.7	176.3	15.3	-1.0	15.3	329.6	331.0	0.7	75.4	25.9	351.
34.4	80.8	8921.0	325.0	-33.7	-37.7	176.0	16.2	-1.1	16.1	330.3	332.0	0.5	66.8	27.8	351.
36.5	84.8	9478.7	300.0	-37.5	-44.2	189.2	14.9	2.4	14.8	332.5	333.4	0.2	45.1	29.6	352.
38.6	88.5	10077.5	275.0	-42.2	99.9	183.0	13.1	0.7	13.1	334.2	999.9	99.9	999.9	31.4	353.
40.9	93.0	10710.0	250.0	-48.0	99.9	179.0	10.3	-0.4	10.3	336.7	999.9	99.9	999.9	33.0	353.
43.4	97.9	11394.8	225.0	-54.1	99.9	179.6	12.3	-0.1	12.3	339.6	999.9	99.9	999.9	34.5	354.
46.0	102.8	12139.0	200.0	-60.3	99.9	180.9	13.6	-0.7	12.8	342.2	999.9	99.9	999.9	36.6	354.
49.2	108.5	12941.2	175.0	-64.6	99.9	157.7	12.5	-4.3	11.6	343.4	999.9	99.9	999.9	38.9	352.
52.5	114.5	13911.4	150.0	-59.3	99.9	190.5	7.7	1.4	7.6	368.0	999.9	99.9	999.9	40.9	352.
56.9	121.3	15050.2	125.0	-60.9	99.9	206.3	8.1	4.0	7.1	384.7	999.9	99.9	999.9	42.6	353.
61.1	128.7	16430.7	100.0	-60.9	99.9	999.9	999.9	99.9	99.9	410.0	999.9	99.9	999.9	43.8	355.
99.9	99.9	99.9	75.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	50.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 532
PEORIA, ILLINOIS

27 MAY 1977
1100 GMT

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME, MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	*.*	200.0	987.5	17.2	10.6	110.0	5.2	-4.9	1.8	291.2	312.6	8.1	65.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	9.9	336.5	975.0	18.2	11.0	233.0	4.3	1.5	2.6	293.5	315.9	8.5	62.8	0.3	256.
1.2	11.8	550.9	950.0	21.2	11.6	162.2	6.6	-2.0	6.2	298.7	323.1	9.1	54.3	0.5	304.
2.1	13.6	781.8	925.0	20.5	9.8	140.9	9.7	-6.5	6.8	300.3	323.0	8.3	50.2	1.4	310.
2.9	15.7	1018.0	900.0	18.9	7.5	130.9	6.2	-4.0	4.7	300.9	320.9	7.2	47.5	1.7	312.
3.8	19.0	1258.9	875.0	16.7	6.4	124.2	4.4	-3.7	2.5	301.1	320.2	6.9	50.7	2.0	313.
4.7	20.4	1505.5	850.0	15.1	3.1	82.3	4.0	-4.0	-0.5	302.0	317.8	5.7	34.4	2.2	310.
5.6	22.8	1757.6	825.0	13.7	-3.3	63.8	6.4	-5.7	-2.8	303.0	313.6	3.7	30.8	2.3	304.
6.7	25.7	2014.1	800.0	12.6	-7.4	71.4	8.1	-7.6	-2.5	304.4	312.8	2.8	24.1	2.6	296.
7.9	27.8	2241.6	775.0	11.0	-2.8	78.6	8.8	-8.6	-1.7	305.6	317.4	4.1	38.3	3.0	288.
8.7	30.3	2556.8	750.0	10.1	-6.5	96.0	5.5	-5.5	-0.6	307.5	316.9	3.1	30.4	3.5	285.
10.0	33.1	2835.4	725.0	7.6	-7.8	92.4	8.1	-8.1	0.3	307.9	316.6	2.9	32.8	4.1	282.
11.0	35.6	3123.8	700.0	5.8	-8.6	94.7	8.4	-8.4	0.7	308.9	317.5	2.8	34.5	4.6	282.
12.0	38.2	3420.1	675.0	3.4	-10.9	95.1	7.4	-7.5	0.7	309.5	317.0	2.5	34.2	5.1	281.
12.9	40.9	3724.8	650.0	1.1	-12.7	106.1	5.2	-5.0	1.5	310.2	317.0	2.2	34.7	5.5	281.
14.1	43.7	4040.1	625.0	0.6	-20.4	128.4	3.4	-2.7	2.1	313.1	317.0	1.2	19.0	5.7	281.
15.2	46.5	4366.8	600.0	-1.1	-23.1	144.4	3.8	-2.2	3.1	314.8	318.1	1.0	16.6	5.6	282.
16.3	49.6	4704.7	575.0	-3.3	-24.3	147.9	5.6	-3.0	4.7	316.2	319.3	0.9	17.9	6.1	285.
17.7	52.4	5054.2	550.0	-4.9	-30.2	165.4	5.9	-1.5	5.8	319.3	320.2	0.6	11.6	6.4	288.
19.1	55.4	5418.9	525.0	-7.9	-32.1	166.9	6.6	-1.2	6.5	319.9	320.6	0.5	12.2	6.7	292.
20.4	58.5	5795.9	500.0	-10.7	-33.5	162.4	7.9	-2.4	7.6	320.0	321.5	0.4	13.3	7.0	296.
21.9	61.8	6190.5	475.0	-13.1	-35.4	167.1	8.5	-1.9	8.3	321.4	322.1	0.4	13.3	7.5	300.
23.1	65.1	6597.8	450.0	-16.1	-28.2	165.7	9.9	-2.2	9.7	323.0	326.9	0.8	34.2	8.0	304.
24.5	68.4	7025.0	425.0	-20.2	-30.2	168.9	9.2	-1.8	9.0	323.1	325.6	0.7	40.3	8.7	307.
26.4	71.9	7471.0	400.0	-24.0	-27.1	169.4	9.6	-1.9	9.4	323.9	327.3	1.0	75.0	9.3	311.
28.1	75.5	7939.8	375.0	-27.7	-34.7	160.1	10.0	-3.4	9.4	325.0	326.9	0.5	51.3	10.2	314.
29.9	79.5	8432.2	350.0	-30.6	-40.4	171.0	6.4	-1.0	6.3	327.5	328.7	0.3	37.3	11.0	317.
31.7	83.3	8954.6	325.0	-34.9	-44.7	191.5	3.6	0.7	3.5	328.5	329.3	0.2	26.0	11.4	318.
33.6	87.3	9507.2	300.0	-39.9	99.9	167.9	2.8	-0.6	2.9	329.2	999.9	99.9	999.9	11.6	320.
35.6	91.8	10095.5	275.0	-44.9	99.9	103.9	3.1	-3.0	0.7	330.2	999.9	99.9	999.9	11.9	320.
38.0	96.4	10724.7	250.0	-49.3	99.9	80.3	3.7	-3.7	-0.6	332.7	999.9	99.9	999.9	12.2	318.
40.4	101.2	11409.8	225.0	-54.5	99.9	52.1	5.0	-3.9	-3.1	335.1	999.9	99.9	999.9	12.4	316.
42.9	106.5	12159.1	200.0	-58.7	99.9	15.1	10.3	-2.8	-9.9	339.9	999.9	99.9	999.9	12.1	310.
45.7	112.2	12994.6	175.0	-64.4	99.9	6.3	8.0	-0.6	-9.0	343.7	999.9	99.9	999.9	11.3	303.
49.1	118.3	13927.7	150.0	-63.9	99.9	22.2	4.0	-1.5	-3.7	360.1	999.9	99.9	999.9	10.8	298.
53.2	125.5	15052.0	125.0	-59.6	99.9	349.3	2.1	0.4	-2.1	387.1	999.9	99.9	999.9	10.8	294.
59.3	133.3	16450.4	100.0	-61.1	99.9	11.5	4.7	-0.9	-4.6	409.7	999.9	99.9	999.9	10.3	292.
64.6	141.3	18223.3	75.0	-62.9	99.9	82.0	5.6	-5.5	-0.8	441.1	999.9	99.9	999.9	11.6	286.
73.5	150.0	20779.7	50.0	-54.4	99.9	80.4	6.8	-6.7	-1.1	515.3	999.9	99.9	999.9	15.1	279.
86.7	159.0	25221.7	25.0	-52.0	99.9	999.9	999.9	99.9	99.9	635.0	999.9	99.9	999.9	20.1	271.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 531
OMAHA, NEBRASKA

27 MAY 1977
1102 GMT

153 23. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.1	400.0	963.4	17.6	16.2	170.0	2.1	-0.4	2.1	298.0	325.7	12.2	92.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	10.2	511.8	950.0	19.3	16.2	151.1	9.8	-4.7	8.6	296.8	329.2	12.3	82.5	0.2	329.
1.0	12.4	743.8	925.0	21.0	15.6	145.7	15.6	-7.3	13.1	300.8	333.4	12.2	71.3	0.8	329.
2.2	14.4	940.7	900.0	20.9	13.2	177.2	21.2	-1.0	21.2	303.0	332.1	10.7	61.6	1.8	346.
3.9	16.7	1237.9	875.0	18.7	12.0	178.1	19.4	-0.7	19.4	303.1	330.9	10.1	64.8	2.7	350.
4.9	19.2	1472.2	850.0	16.4	11.2	178.0	19.1	-0.7	19.1	303.4	330.4	9.9	71.2	3.7	352.
4.9	21.4	1726.0	825.0	14.1	11.4	178.0	17.4	-0.6	17.4	303.5	331.9	10.4	84.3	4.7	353.
5.5	23.9	1985.4	800.0	11.9	11.1	177.7	16.0	-0.7	16.0	303.7	332.3	10.4	95.4	5.6	354.
6.5	26.1	2250.0	775.0	9.8	8.4	176.1	17.5	-1.2	17.5	304.3	329.1	9.0	91.2	6.6	354.
7.5	28.8	2533.4	750.0	8.0	6.5	173.3	17.9	-1.9	17.8	305.1	327.9	8.1	90.2	7.5	355.
8.4	31.3	2802.8	725.0	6.0	4.5	168.9	16.3	-3.1	16.0	306.1	326.6	7.3	85.6	8.5	356.
9.5	34.0	3089.9	700.0	4.2	3.0	166.1	14.1	-3.4	13.7	307.2	326.5	6.8	91.8	9.5	353.
10.5	36.6	3385.4	675.0	2.0	0.9	166.5	15.5	-3.6	15.1	307.9	325.2	6.0	91.8	10.5	353.
11.7	39.3	3680.7	650.0	0.4	-2.4	166.1	16.7	-4.0	16.2	309.5	322.9	4.6	75.3	11.4	352.
12.7	41.9	4003.9	625.0	-1.2	-2.9	167.9	16.8	-3.7	16.4	311.1	325.7	5.0	87.9	12.4	352.
13.4	44.9	4329.5	600.0	-2.2	-5.1	174.1	13.6	-1.4	13.5	313.5	326.5	4.4	80.5	13.3	352.
14.9	47.9	4666.2	575.0	-5.0	-7.0	179.5	13.0	-0.1	13.0	314.1	326.0	4.0	86.1	14.1	352.
16.0	50.8	5014.6	550.0	-7.5	-9.0	183.3	14.1	0.8	14.1	315.2	325.9	3.5	88.7	15.1	353.
17.3	53.9	5374.1	525.0	-9.9	-11.2	181.6	14.3	0.4	14.3	317.7	327.3	3.1	82.3	16.2	353.
18.6	56.9	5752.6	500.0	-11.4	-14.0	180.7	12.8	0.2	12.8	319.2	327.3	2.6	81.3	17.3	354.
19.9	60.1	6144.1	475.0	-14.6	-16.4	177.7	15.0	-0.6	15.0	319.9	327.0	2.2	86.5	18.3	354.
21.2	63.6	6557.5	450.0	-15.8	-20.3	173.7	14.0	-1.5	13.9	323.4	329.1	1.7	69.5	19.6	354.
22.7	66.9	6982.0	425.0	-19.0	-23.5	175.3	11.9	-1.0	11.9	324.7	329.4	1.4	71.3	20.6	354.
24.3	70.6	7431.4	400.0	-21.9	-28.2	171.5	12.3	-1.8	12.2	326.5	329.8	0.9	56.2	21.8	354.
26.0	74.3	7903.2	375.0	-25.4	-31.1	167.2	11.3	-2.5	11.0	327.9	330.6	0.7	59.6	22.9	354.
27.4	78.3	8400.2	350.0	-28.9	-36.4	173.4	12.0	-1.4	11.9	329.9	331.6	0.5	47.8	24.1	354.
29.4	82.3	8924.1	325.0	-33.0	-41.6	184.5	13.1	1.0	13.1	331.1	332.4	0.3	41.3	25.4	354.
31.2	86.6	9483.3	300.0	-37.7	-46.9	184.5	14.5	1.2	14.4	332.2	332.9	0.2	37.3	26.8	355.
33.0	91.2	10074.4	275.0	-42.9	99.9	176.0	13.4	-0.9	13.4	333.2	999.9	99.9	999.9	28.4	355.
35.0	96.0	10712.2	250.0	-48.0	99.9	175.5	13.9	-1.1	13.8	334.4	999.9	99.9	999.9	29.9	355.
37.2	101.0	11399.2	225.0	-53.4	99.9	179.6	15.8	-0.1	15.8	336.6	999.9	99.9	999.9	31.5	355.
39.5	105.9	12145.6	200.0	-60.4	99.9	188.2	17.3	2.5	17.1	337.1	999.9	99.9	999.9	34.2	356.
42.2	112.9	12969.1	175.0	-63.9	99.9	190.9	13.1	2.5	12.9	344.7	999.9	99.9	999.9	36.7	357.
45.2	119.3	13919.1	150.0	-61.5	99.9	188.9	8.7	1.2	8.6	364.2	999.9	99.9	999.9	38.6	357.
48.8	126.7	15059.7	125.0	-59.7	99.9	186.0	10.1	1.0	10.0	387.0	999.9	99.9	999.9	40.2	357.
53.3	134.7	16469.0	100.0	-60.2	99.9	197.2	2.6	0.9	2.5	411.5	999.9	99.9	999.9	41.8	358.
58.7	142.7	18247.0	75.0	-61.7	99.9	119.4	3.3	-2.9	1.6	441.6	999.9	99.9	999.9	42.3	358.
64.8	151.3	20703.5	50.0	-56.7	99.9	78.7	5.9	-5.7	-1.3	511.0	999.9	99.9	999.9	42.1	356.
74.9	160.3	25236.6	25.0	-52.1	99.9	999.9	99.9	99.9	99.9	635.1	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 562
NORTH PLATTE, NEBRASKA

27 MAR 1977
1145 GMT

156 24. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.0	847.0	909.6	13.3	12.2	270.0	2.6	2.6	0.0	294.3	320.3	9.9	93.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	15.9	974.5	900.0	13.7	99.9	999.9	99.9	99.9	99.9	295.6	999.9	99.9	999.9	999.9	999.
1.1	18.4	1174.0	875.0	12.7	11.4	999.9	999.9	99.9	99.9	297.0	322.9	9.7	91.8	999.9	999.
2.1	21.0	1417.9	850.0	11.7	10.1	999.9	999.9	99.9	99.9	298.4	323.2	9.2	89.9	999.9	999.
2.9	23.7	1668.0	825.0	12.0	99.9	993.0	999.9	99.9	99.9	301.3	999.9	99.9	999.9	999.9	999.
3.9	26.3	1924.0	800.0	10.0	99.9	999.9	999.9	99.9	99.9	301.9	999.9	99.9	999.9	999.9	999.
4.9	29.1	2187.9	775.0	8.3	0.7	999.9	999.9	99.9	99.9	302.7	317.4	5.2	59.6	999.9	999.
5.9	32.0	2457.5	750.0	7.0	-0.9	999.9	999.9	99.9	99.9	304.1	317.8	4.8	57.2	1.7	109.
6.8	34.9	2733.5	725.0	5.1	-3.0	277.9	9.9	9.9	-1.4	305.0	317.3	4.2	55.8	2.3	106.
7.8	37.5	3021.5	700.0	3.9	-4.6	270.0	8.8	8.8	0.0	306.8	318.2	3.9	53.9	2.9	105.
8.8	40.5	3316.5	675.0	2.0	-6.0	252.7	9.0	9.5	3.0	307.9	318.6	3.6	55.4	3.4	101.
9.8	43.4	3620.2	650.0	-0.2	-5.2	236.2	11.5	9.6	6.4	308.8	320.6	4.0	69.2	3.9	95.
10.9	46.6	3933.1	625.0	-2.5	-6.3	218.4	13.2	8.2	10.3	309.6	320.9	3.8	75.2	4.5	88.
12.1	49.9	4255.7	600.0	-5.4	-8.1	208.1	14.9	6.6	13.4	310.9	320.2	3.5	81.5	5.0	76.
13.2	53.9	4588.7	575.0	-7.8	-8.4	199.4	16.3	5.6	15.8	310.9	321.4	3.5	94.5	5.7	69.
14.4	56.0	4933.8	550.0	-9.1	-11.8	194.1	17.8	4.6	17.2	313.3	321.8	2.8	80.6	6.6	61.
15.7	59.4	5290.4	525.0	-11.9	-15.4	189.7	19.3	2.7	19.1	314.3	321.1	2.2	74.4	7.5	53.
17.0	63.0	5664.7	500.0	-13.7	-24.4	187.3	19.4	2.5	19.2	316.3	319.8	1.1	39.8	8.5	46.
18.3	66.4	6052.9	475.0	-16.5	-31.3	182.4	21.4	0.9	21.4	317.6	319.6	0.6	28.2	9.6	40.
19.6	70.1	6454.9	450.0	-19.0	-25.9	172.6	21.0	-3.0	22.9	318.3	321.7	1.0	59.4	11.3	34.
21.0	73.7	6870.6	425.0	-22.4	-32.1	163.7	22.8	-6.4	21.9	320.3	322.4	0.6	40.2	12.6	28.
22.6	77.8	7301.3	400.0	-26.6	-33.6	167.1	23.3	-5.2	22.7	320.5	322.4	0.6	51.0	14.3	21.
24.1	81.7	7745.3	375.0	-28.4	-33.0	160.2	24.6	-8.6	24.2	324.0	326.4	0.7	71.5	16.2	18.
25.7	85.9	8207.6	350.0	-30.9	-34.1	163.8	30.6	-8.5	29.4	327.1	329.3	0.5	72.7	18.5	13.
27.4	90.2	8688.6	325.0	-35.5	-37.5	157.7	33.8	-13.0	31.2	327.5	329.4	0.5	81.9	21.3	8.
29.3	95.0	9190.6	300.0	-40.0	99.9	157.4	37.6	-14.4	34.7	329.0	999.9	99.9	999.9	24.8	3.
31.1	99.6	9709.1	275.0	-45.4	99.9	162.4	39.0	-11.7	37.2	329.5	999.9	99.9	999.9	29.9	0.
33.3	104.6	10246.9	250.0	-50.7	99.9	166.7	39.0	-9.0	37.9	330.6	999.9	99.9	999.9	33.7	358.
36.0	110.0	10804.9	225.0	-55.9	99.9	174.2	43.5	-4.4	43.3	333.0	999.9	99.9	999.9	40.1	357.
38.3	115.4	11383.8	200.0	-59.2	99.9	187.0	34.8	4.2	34.6	339.0	999.9	99.9	999.9	46.3	357.
41.2	122.0	12036.1	175.0	-54.9	99.9	174.9	17.7	-0.9	17.7	359.4	999.9	99.9	999.9	50.3	356.
44.7	129.8	12813.2	150.0	-57.5	99.9	185.4	17.5	1.6	17.4	371.0	999.9	99.9	999.9	53.8	358.
48.8	138.0	13668.9	125.0	-55.7	99.9	214.7	12.0	6.9	9.8	394.2	999.9	99.9	999.9	56.4	360.
53.6	148.0	14673.8	100.0	-57.8	99.9	200.8	7.7	2.8	7.2	416.0	999.9	99.9	999.9	59.1	0.
60.0	161.0	15969.0	75.0	-62.4	99.9	176.1	5.4	-0.6	5.4	442.1	999.9	99.9	999.9	61.1	0.
68.8	159.7	20707.3	50.0	-58.5	99.9	89.5	6.1	-6.1	-0.1	505.7	999.9	99.9	999.9	61.6	266.
81.9	149.5	25128.2	25.0	-52.0	99.9	999.9	99.9	99.9	99.9	635.2	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 454
HURON, SOUTH DAKOTA

22 MAY 1977
1100 GMT

156 16. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN.	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.9	793.0	960.7	17.2	15.5	150.0	7.7	-3.9	6.7	293.8	324.2	11.7	90.0	0.0	0.
00.0	99.9	99.0	1000.0	99.0	99.9	99.9	99.9	99.0	99.0	99.9	999.9	99.9	999.0	999.9	999.
00.0	99.9	99.9	975.0	99.0	99.9	99.3	99.9	99.9	99.9	999.9	999.9	99.9	966.9	959.9	999.
0.2	10.5	479.2	950.0	17.0	15.5	265.6	5.5	5.0	-2.4	294.5	325.9	12.1	93.1	1.0	337.
1.1	13.3	707.9	925.0	16.7	15.7	207.9	9.1	7.8	7.2	296.4	328.5	12.2	94.0	0.9	346.
2.0	15.7	941.4	900.0	16.3	12.0	194.7	12.0	1.0	12.0	298.4	324.8	9.9	78.5	1.6	351.
2.9	18.3	1180.0	875.0	15.5	8.4	197.0	9.7	2.5	9.2	300.0	321.6	7.9	62.1	2.1	350.
3.8	20.9	1424.7	850.0	14.1	8.2	204.4	9.3	3.8	8.4	301.0	323.1	8.1	67.6	2.5	0.
4.5	23.4	1674.4	825.0	12.8	5.6	199.1	8.5	2.8	8.1	302.2	321.4	6.9	61.2	3.0	4.
5.3	26.0	1934.3	800.0	10.9	7.6	192.2	10.1	2.1	9.8	302.8	325.5	8.3	80.2	3.4	5.
6.2	28.8	2200.7	775.0	9.0	4.9	192.5	13.0	2.4	12.7	303.5	325.8	8.1	75.7	4.0	6.
7.2	31.6	2472.0	750.0	6.9	5.5	188.4	14.0	2.1	13.8	304.1	325.3	7.6	81.0	4.3	7.
8.2	34.5	2750.3	725.0	4.7	4.6	183.9	13.2	0.9	13.2	304.7	325.2	7.4	88.8	5.6	7.
9.2	37.3	3035.8	700.0	2.2	1.9	178.7	13.6	-0.3	13.6	304.9	322.5	6.3	97.6	6.5	6.
10.4	40.2	3329.2	675.0	0.6	-0.7	172.7	15.2	-1.9	15.1	306.3	321.8	5.4	90.8	7.4	5.
11.6	43.1	3631.9	650.0	-1.0	-6.0	167.6	14.7	-3.1	14.9	307.9	318.9	3.8	65.0	8.3	3.
12.6	46.3	3944.9	625.0	-1.7	-3.6	170.5	15.7	-2.6	15.5	310.5	324.3	4.7	86.5	9.3	2.
13.6	49.5	4268.6	600.0	-4.6	-6.7	177.0	15.6	-0.9	15.6	310.8	322.3	3.9	85.2	10.3	1.
14.7	52.8	4604.2	575.0	-5.2	-9.8	184.2	15.1	1.1	15.1	314.0	323.6	3.2	89.7	11.3	1.
15.8	56.7	4951.7	550.0	-9.1	-10.0	182.8	15.4	0.7	15.4	314.4	324.3	3.2	86.1	12.3	1.
17.0	59.1	5312.6	525.0	-9.0	-20.5	177.7	18.8	-0.8	18.8	317.7	322.3	1.4	38.6	13.5	1.
18.2	62.8	5688.8	500.0	-11.3	-25.2	179.0	20.6	-0.7	20.6	319.3	322.6	1.0	30.5	14.9	1.
19.5	66.0	6079.9	475.0	-14.4	-23.9	180.6	20.8	0.2	20.6	320.1	324.0	1.2	44.1	16.6	1.
20.9	69.7	6489.3	450.0	-15.7	-24.6	177.9	21.4	-0.8	21.4	322.3	326.1	1.1	50.1	18.4	0.
22.4	73.3	6914.9	425.0	-20.2	-25.6	178.7	20.8	-0.1	20.8	323.1	326.8	1.1	61.9	20.1	0.
23.7	77.3	7361.6	400.0	-23.1	-30.1	181.7	22.2	0.5	22.2	324.9	327.6	0.8	52.7	21.9	0.
25.1	81.2	7831.1	375.0	-26.5	-33.8	176.2	22.4	-1.5	22.4	326.5	328.6	0.6	49.7	23.7	0.
26.7	85.3	8325.9	350.0	-30.7	-35.2	174.8	25.4	-2.3	25.3	327.4	329.1	0.5	57.9	25.9	360.
28.4	89.5	8847.9	325.0	-34.3	-39.5	175.7	26.7	-2.0	24.6	329.4	330.8	0.4	59.1	28.6	356.
30.4	94.2	9403.4	300.0	-38.7	-47.4	178.0	28.3	-1.0	28.3	330.9	331.5	0.2	38.6	31.3	359.
32.4	99.8	9995.5	275.0	-43.5	99.9	186.4	31.1	3.5	30.9	332.2	999.9	99.9	999.9	35.3	356.
34.5	103.8	10628.4	250.0	-49.1	99.9	193.0	31.8	7.1	31.0	333.0	999.9	99.9	999.9	39.5	0.
37.0	109.0	11310.3	225.0	-54.9	99.9	196.9	33.3	9.7	31.9	334.3	999.9	99.9	999.9	44.1	2.
39.5	114.5	12052.5	200.0	-61.2	99.9	202.4	28.6	10.9	26.4	335.8	999.9	99.9	999.9	48.8	4.
42.5	120.4	12877.5	175.0	-62.7	99.9	186.4	20.0	2.2	19.9	346.4	999.9	99.9	999.9	53.8	5.
45.9	126.7	13820.2	150.0	-58.1	99.9	180.4	14.8	0.1	14.8	370.0	999.9	99.9	999.9	58.5	5.
50.0	133.3	14978.1	125.0	-57.6	99.9	178.7	9.7	-0.2	9.7	390.8	999.9	99.9	999.9	59.4	5.
55.0	140.0	16291.3	100.0	-58.8	99.9	171.6	6.1	-0.9	6.1	414.2	999.9	99.9	999.9	61.4	4.
61.3	147.0	19199.3	75.0	-61.4	99.9	129.0	5.9	-4.6	3.7	444.2	999.9	99.9	999.9	63.4	4.
70.0	154.0	20738.8	50.0	-55.9	99.9	94.0	7.3	-7.3	-0.8	511.7	999.9	99.9	999.9	63.3	1.
84.5	161.3	25199.6	25.0	-51.7	99.9	80.4	12.1	-11.9	-2.0	636.5	999.9	99.9	966.9	61.5	354.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 642
RAPID CITY, SOUTH DAKOTA

27 MAY 1977
1112 GMT

149 12. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.5	964.0	965.7	12.9	10.0	130.0	2.1	-1.6	1.3	295.1	316.1	8.7	83.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	900.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.7	17.4	1167.3	875.0	14.4	7.9	275.5	3.6	3.6	-0.5	298.8	319.7	7.7	64.8	0.2	352.
1.5	19.8	1409.1	850.0	13.1	5.5	274.6	4.9	4.9	0.0	299.6	318.3	6.7	55.8	0.3	28.
2.5	22.0	1659.7	825.0	11.5	3.6	264.7	6.2	5.6	2.7	300.7	317.5	6.0	58.5	0.5	40.
3.4	24.5	1915.4	800.0	9.8	1.5	260.3	7.2	6.8	2.5	301.4	316.5	5.4	57.6	1.0	52.
4.5	25.3	2179.5	775.0	9.1	-0.1	251.5	6.6	6.2	2.1	302.5	316.5	4.9	56.2	1.4	58.
5.4	27.4	2448.4	750.0	5.9	-0.7	241.4	5.6	4.9	2.7	303.0	316.7	4.5	62.5	1.8	60.
6.6	32.1	2724.9	725.0	3.8	-4.6	247.4	5.0	5.4	2.7	303.7	314.5	3.8	54.0	2.1	60.
7.6	34.8	3009.4	700.0	2.1	-5.3	242.3	5.3	5.5	2.9	304.8	315.6	3.7	58.2	2.5	61.
8.7	37.2	3303.3	675.0	-0.1	-5.9	230.9	4.9	4.6	3.8	305.5	316.1	3.6	65.1	2.9	60.
9.9	40.1	3603.1	650.0	-2.7	-6.7	216.4	5.1	3.0	4.1	305.9	316.3	3.6	73.9	3.3	59.
11.0	43.0	3913.7	625.0	-4.3	-9.1	217.7	4.5	2.6	5.4	307.7	316.9	3.1	66.3	3.8	56.
12.2	45.8	4235.7	600.0	-5.4	-13.2	220.4	9.3	6.0	7.1	309.7	316.6	2.3	54.2	4.1	53.
13.4	49.8	4569.1	575.0	-7.7	-20.4	225.8	9.1	6.5	6.3	311.0	315.1	1.3	35.1	4.8	52.
14.6	51.6	4912.4	550.0	-9.9	-23.4	224.6	7.5	5.4	5.2	312.4	315.7	1.0	32.6	5.4	52.
15.1	54.9	5270.3	525.0	-11.2	-23.6	214.9	9.2	5.2	7.5	315.0	318.5	1.1	35.0	6.1	50.
17.5	57.9	5643.4	500.0	-13.4	-27.4	217.3	12.4	7.5	9.9	316.2	318.9	0.9	30.5	7.0	48.
19.4	61.3	6030.6	475.0	-17.5	-29.7	221.3	13.8	9.1	10.4	316.6	318.7	0.7	33.3	8.0	47.
20.3	64.7	6432.7	450.0	-21.0	-27.1	210.5	13.9	7.1	12.0	315.9	319.9	0.9	58.3	9.2	46.
21.9	68.1	6853.5	425.0	-23.3	-25.1	190.7	14.0	3.3	17.7	319.1	322.9	1.2	65.5	10.4	43.
23.6	71.7	7296.3	400.0	-26.9	-29.5	184.4	23.4	1.8	23.3	320.1	322.9	0.9	77.9	12.3	36.
25.7	75.5	7754.6	375.0	-30.9	-35.3	185.0	24.5	2.2	24.5	320.7	322.4	0.5	65.3	14.6	31.
27.0	79.5	8243.5	350.0	-34.9	-39.0	180.4	24.3	0.2	24.3	321.7	323.0	0.4	65.9	16.8	27.
28.9	83.6	8756.0	325.0	-38.7	-42.4	169.0	26.9	-5.6	26.3	323.4	324.4	0.3	67.3	19.0	23.
30.7	87.7	9301.7	300.0	-41.5	99.9	169.7	34.7	-6.2	34.1	326.4	999.9	99.9	999.9	21.5	17.
32.9	92.4	9887.8	275.0	-44.5	99.9	173.2	44.4	-5.2	44.0	330.8	999.9	99.9	999.9	26.7	13.
35.0	97.2	10530.0	250.0	-48.8	99.9	173.8	52.0	-5.7	51.7	333.5	999.9	99.9	999.9	32.5	9.
37.1	102.3	11207.8	225.0	-54.8	99.9	177.2	51.3	-2.5	51.2	334.4	999.9	99.9	999.9	39.4	7.
40.4	108.0	11951.0	200.0	-56.5	99.9	182.2	31.6	1.2	31.5	343.3	999.9	99.9	999.9	45.7	6.
42.6	114.0	12811.6	175.0	-53.1	99.9	179.5	19.0	-0.2	19.0	362.4	999.9	99.9	999.9	49.6	5.
45.9	120.5	13808.9	150.0	-52.4	99.9	179.2	17.2	-0.5	17.1	379.8	999.9	99.9	999.9	53.0	5.
49.0	127.7	14970.7	125.0	-54.8	99.9	202.7	12.5	4.6	11.5	395.7	999.9	99.9	999.9	57.0	5.
54.7	135.5	16396.8	100.0	-57.2	99.9	184.0	8.4	0.6	8.4	417.3	999.9	99.9	999.9	59.2	6.
60.9	143.0	18209.5	75.0	-57.7	99.9	165.8	5.7	-1.4	5.5	452.0	999.9	99.9	999.9	61.5	9.
69.9	150.9	20782.7	50.0	-55.8	99.9	99.3	6.2	-6.2	-0.2	512.1	999.9	99.9	999.9	62.2	3.
91.5	159.0	25228.9	25.0	-52.1	99.9	999.9	999.9	99.9	99.9	634.9	999.9	99.9	999.9	60.2	358.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 11031
MARSHALL SFC. ALABAMA

27 MAY 1977
1140 GMT

139 16. 0

TIME MIN.	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	6.4	180.0	999.4	19.4	17.2	80.0	3.1	-3.1	-0.5	293.4	325.9	12.6	87.0	0.0	0.
99.0	99.0	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.6	7.7	316.7	975.0	17.9	16.0	107.4	6.0	-5.3	2.0	293.0	323.7	11.9	86.3	0.2	277.
1.5	9.4	599.0	950.0	16.0	15.1	126.4	8.1	-6.5	4.8	293.5	322.2	11.4	92.9	0.6	289.
2.5	11.0	746.2	925.0	15.5	14.7	145.1	9.4	-5.6	5.0	295.1	325.2	11.5	95.1	1.0	302.
3.3	14.1	899.7	900.0	13.7	12.9	151.2	10.7	-5.0	9.0	295.5	323.2	10.5	90.9	1.6	312.
4.3	16.7	1047.2	875.0	14.4	10.2	157.4	6.6	-3.0	5.8	298.8	323.1	9.0	75.9	2.1	317.
5.3	19.5	1199.1	850.0	13.2	9.8	139.4	3.1	-2.1	2.3	299.9	322.8	8.4	74.9	2.3	318.
6.2	20.7	1352.9	825.0	11.4	8.5	79.5	1.9	-1.9	-0.4	300.6	323.6	8.5	82.7	2.4	317.
7.1	23.0	1509.4	800.0	9.7	6.4	97.4	3.4	-3.4	0.1	301.1	321.9	7.6	81.8	2.4	315.
8.2	25.3	1669.4	775.0	7.9	4.9	111.9	5.3	-4.9	2.1	302.2	321.6	7.0	81.4	2.7	313.
9.2	27.7	1832.7	750.0	6.7	2.2	113.5	4.8	-4.4	1.9	303.0	320.9	6.1	73.6	3.1	311.
10.4	30.2	1999.0	725.0	4.9	0.1	108.9	4.5	-4.3	1.5	304.8	320.0	5.3	70.9	3.4	309.
11.5	32.5	2168.4	700.0	4.1	-0.5	85.0	3.3	-3.3	-0.5	307.4	322.2	5.1	68.4	3.6	306.
12.4	35.1	2342.9	675.0	2.7	-2.2	68.4	6.6	-6.2	-2.4	308.6	322.7	4.9	70.2	3.9	302.
13.8	37.6	2487.7	650.0	1.0	-4.2	59.1	7.4	-6.3	-3.9	310.1	322.6	4.3	68.5	4.2	296.
15.2	40.1	2701.8	625.0	-1.7	-8.0	64.4	7.7	-7.0	-3.3	310.5	320.6	3.4	62.2	4.5	289.
16.6	42.7	2926.9	600.0	-2.1	-10.1	64.7	7.2	-6.1	-3.1	313.8	322.9	3.0	53.9	4.8	282.
17.9	45.4	3156.5	575.0	-3.5	-13.3	60.5	6.2	-5.4	-3.0	315.9	323.2	2.4	47.6	5.1	276.
19.3	48.1	3391.5	550.0	-5.5	-15.0	60.5	7.2	-6.3	-3.6	317.6	324.5	2.2	46.8	5.4	272.
20.7	50.9	3631.0	525.0	-7.9	-21.8	58.3	8.0	-6.8	-3.3	319.1	323.3	1.3	31.2	6.1	270.
22.5	53.9	3877.3	500.0	-8.8	-32.0	65.9	12.7	-11.5	-5.2	322.4	324.2	0.5	13.1	7.2	266.
24.2	56.8	4129.4	475.0	-11.8	-35.4	59.8	8.9	-7.7	-4.5	323.4	324.8	0.4	12.0	8.2	263.
25.8	60.0	4387.8	450.0	-15.1	-37.4	60.1	5.7	-5.0	-2.9	324.2	325.4	0.3	12.8	8.9	261.
27.8	63.1	4653.0	425.0	-18.4	-39.8	67.8	4.1	-3.8	-2.7	325.4	326.4	0.3	13.1	9.3	260.
29.5	66.3	4927.2	400.0	-21.3	-35.6	65.0	4.2	-3.8	-1.8	327.3	329.0	0.5	25.8	9.7	259.
31.4	69.9	5215.8	375.0	-25.8	-38.3	45.1	3.6	-2.5	-2.5	327.8	329.1	0.4	25.0	10.2	258.
33.4	73.3	5511.8	350.0	-29.9	-42.3	57.3	3.6	-3.0	-1.9	329.5	329.5	0.3	20.3	10.5	257.
35.4	77.0	5814.1	325.0	-34.0	-46.2	52.0	2.7	-2.1	-1.6	329.9	330.6	0.2	27.6	10.9	256.
37.4	80.9	6130.4	300.0	-38.7	-50.2	57.7	2.8	-2.3	-1.5	330.8	331.3	0.1	28.4	11.2	256.
39.5	85.0	10000.0	275.0	-43.0	99.9	35.3	2.3	-1.7	-2.3	331.6	999.9	99.9	999.9	11.4	255.
41.9	89.2	10713.8	250.0	-49.3	99.9	0.3	4.1	-0.7	-4.0	332.8	999.9	99.9	999.9	11.7	253.
44.2	93.7	11306.0	225.0	-55.1	99.9	359.7	4.1	0.1	-4.1	334.1	999.9	99.9	999.9	11.9	250.
46.3	98.4	12134.7	200.0	-61.3	99.9	52.7	5.4	-4.6	-3.5	335.7	999.9	99.9	999.9	12.4	249.
48.7	103.4	12950.9	175.0	-64.9	99.9	330.7	3.2	1.6	-2.8	342.4	999.9	99.9	999.9	13.1	248.
51.1	108.9	13907.7	150.0	-62.9	99.9	333.5	5.2	2.1	-4.7	361.9	999.9	99.9	999.9	13.3	246.
53.7	114.5	15033.0	125.0	-60.8	99.9	324.6	5.8	3.4	-4.7	384.9	999.9	99.9	999.9	13.6	246.
61.1	120.5	14419.2	100.0	-61.9	99.9	351.2	5.5	0.9	-5.4	404.2	999.9	99.9	999.9	13.2	234.
64.7	127.0	19139.4	75.3	-64.2	99.9	72.1	7.2	-1.7	-2.7	438.4	999.9	99.9	999.9	14.3	230.
78.6	134.3	20704.7	50.0	-57.4	99.9	84.4	6.2	-5.6	-2.7	508.3	999.9	99.9	999.9	16.1	231.
87.6	141.5	25179.2	25.0	-40.7	99.9	105.9	4.3	-4.1	1.2	645.6	999.9	99.9	999.9	20.0	237.

* RY SPEED MEANS ELEVATION ANGLE BETWEEN 5 AND 10 DEG
* RY TEMP MEANS TEMPERATURE OF TIME HAVE BEEN INTERPOLATED
** RY SPEED MEANS ELEVATION ANGLE LESS THAN 5 DEG

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Sounding Data

27 May 1977

1400 GMT

STATION NO. 725
CENTREVILLE, ALABAMA

27 MAY 1977
1500 GMT

162 10. 0

TIME MIN.	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE NM	AZ DG
0.0	4.4	140.0	986.7	24.0	19.1	50.0	3.1	-2.4	-2.0	297.6	334.7	14.1	74.0	0.0	0.
99.9	99.9	99.9	1009.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.5	4.4	318.8	975.0	21.5	19.6	137.4	2.9	-2.1	2.0	295.9	336.0	15.0	88.4	0.1	264.
0.9	10.4	540.2	949.0	19.7*	19.1	138.1	2.3	-1.7	1.6	297.2	336.0	14.9	96.4	0.1	289.
1.9	13.2	749.0	925.0	17.8	17.1	142.5	1.2	0.1	1.2	299.5	332.8	13.4	95.5	0.2	299.
2.2	15.4	1004.0	901.0	17.*	14.6	230.1	2.1	1.4	1.4	299.4	330.7	11.7	83.6	0.1	320.
3.0	18.0	1245.0	875.0	16.0*	14.2	230.2	2.7	1.8	1.5	301.4	332.9	11.7	82.6	0.2	339.
3.8	20.5	1497.7	850.0	16.1	11.1	245.2	2.0	1.9	0.8	303.2	330.1	9.8	71.3	0.2	19.
4.6	23.0	1747.2	825.0	14.5	8.9	250.0	2.6	2.4	0.9	303.2	328.0	8.7	66.9	0.3	31.
5.4	25.5	2007.1	800.0	12.6	7.6	254.7	3.4	3.5	1.0	304.4	327.5	8.1	71.7	0.3	44.
6.2	28.0	2273.1	775.0	10.7	7.7	249.3	4.1	3.9	.5	305.7	329.2	8.8	81.8	0.3	52.
7.2	30.9	2588.9	750.0	9.6	6.2	267.1	3.0	2.9	0.4	305.7	327.2	8.0	84.7	0.8	57.
8.0	33.4	2834.8	725.0	6.9	2.2	289.9	2.5	2.3	-0.8	307.1	326.8	6.2	72.0	1.0	61.
9.0	36.2	3113.9	700.0	5.3	2.9	324.1	2.9	1.7	-2.4	308.4	327.8	6.7	84.1	1.0	69.
10.0	39.1	3413.9	675.0	3.8	0.4	335.9	3.8	1.5	-3.5	309.9	328.9	6.9	78.8	1.0	81.
11.0	41.9	3716.3	650.0	1.3	-0.3	327.2	4.4	2.3	-3.7	310.4	327.2	6.8	88.9	1.1	93.
12.0	44.9	4033.4	625.0	-0.4	-2.1	324.1	3.4	2.1	-2.9	312.0	327.4	6.3	88.6	1.2	101.
13.1	47.9	4358.1	600.0	-2.5	-4.4	328.1	4.2	1.2	-3.0	313.2	327.0	6.6	87.8	1.5	107.
14.2	50.9	4695.7	575.0	-3.6	-5.9	340.3	4.2	1.4	-3.9	315.3	327.8	6.8	77.6	1.6	114.
15.3	54.0	5064.0	550.0	-5.8	-8.4	330.2	4.9	2.4	-4.3	317.3	328.6	5.7	61.6	1.8	121.
16.5	57.1	5409.9	525.0	-7.9	-10.3	332.3	6.0	2.9	-5.3	318.9	329.2	5.3	63.0	2.2	125.
17.8	60.4	5788.9	500.0	-9.7	-18.2	346.9	6.5	1.5	-6.4	322.4	329.6	1.9	46.8	2.6	132.
19.1	63.9	6178.8	475.0	-11.1	-20.8	345.5	5.9	1.5	-5.7	324.2	329.3	1.5	44.5	3.0	137.
20.3	67.3	6558.2	450.0	-14.1	-24.3	353.1	6.1	0.1	-6.1	325.5	329.5	1.2	41.5	3.4	140.
21.4	70.4	7030.3	425.0	-16.7	-30.1	0.4	7.6	-0.0	-7.6	327.5	330.1	0.7	30.2	3.6	144.
23.1	76.4	7687.2	400.0	-20.0	-34.0	355.5	1.9	0.1	-1.9	329.0	330.6	0.4	22.4	3.7	148.
24.9	79.6	7944.0	375.0	-24.7	-34.4	344.9	2.2	0.6	-2.1	329.6	331.0	0.4	25.4	3.9	146.
26.5	82.8	8457.9	350.0	-29.3	-44.0	356.9	2.5	0.1	-2.6	330.6	331.4	0.2	20.4	4.1	148.
28.6	86.7	8994.3	325.0	-32.7	-46.6	349.0	3.0	0.6	-2.9	331.7	332.4	0.2	23.2	4.4	149.
29.9	91.2	9547.3	300.0	-37.5	-50.5	14.4	2.9	-0.7	-2.8	332.8	333.8	0.1	24.2	4.7	151.
32.8	95.4	10135.4	275.0	-42.7	-99.9	27.4	2.2	-1.0	-1.0	333.4	999.9	99.9	99.9	4.9	154.
34.7	100.7	10770.6	250.0	-43.4	-99.9	29.4	3.7	-1.6	-2.0	334.2	999.9	99.9	999.9	5.1	157.
37.1	106.0	11455.1	225.0	-53.3	-99.9	139.4	3.1	-1.7	1.6	336.7	999.9	99.9	999.9	5.4	161.
39.7	111.5	12201.8	200.0	-59.4	-99.9	287.0	6.3	6.0	-1.9	338.8	999.9	99.9	999.9	5.8	166.
42.9	117.5	13026.0	175.0	-63.8	-99.9	304.5	8.9	7.1	-5.2	346.3	999.9	99.9	999.9	6.6	172.
46.2	124.5	13997.7	150.0	-61.9	-99.9	291.0	9.4	8.8	-3.4	361.4	999.9	99.9	999.9	9.0	183.
50.2	131.7	15112.3	125.0	-62.0	-99.9	309.4	7.9	6.1	-5.0	392.7	999.9	99.9	999.9	10.5	138.
55.1	139.7	16499.0	100.0	-64.0	-99.9	317.9	5.9	3.9	-3.6	404.1	999.9	99.9	999.9	12.4	130.
60.9	147.0	18249.9	75.0	-61.5	-99.9	61.0	3.7	-2.2	-2.5	437.8	999.9	99.9	999.9	13.1	140.
69.5	155.7	20777.8	50.0	-56.9	-99.9	86.3	5.2	-0.2	-0.3	509.5	999.9	99.9	999.9	12.4	147.
89.7	166.7	25236.9	25.0	-51.3	-99.9	137.8	6.6	-4.3	4.7	637.5	999.9	99.9	999.9	10.5	162.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 215
JACKSON, MISSISSIPPI

27 MAY 1977
1400 GMT

164 11. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	PIT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	6.7	100.0	959.7	24.4	19.5	330.0	1.5	0.9	-1.3	297.7	335.5	14.4	74.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.6	9.7	309.5	975.0	21.2	17.6	254.3	3.4	3.2	0.9	296.5	330.8	13.1	76.8	0.1	123.
1.5	11.2	535.5	950.0	22.5	15.8	267.9	4.1	4.1	0.2	300.1	334.2	12.6	70.0	0.3	85.
2.5	13.2	767.4	925.0	20.6	16.9	289.3	4.0	3.8	-1.2	300.4	335.7	13.3	79.4	0.5	93.
3.5	15.4	1004.2	900.0	19.6	15.3	287.4	4.5	4.3	-1.3	300.7	333.5	12.3	80.9	0.7	95.
4.5	19.2	1245.9	875.0	16.5	14.2	289.3	3.7	3.5	-1.2	300.9	332.4	11.7	86.2	1.0	101.
5.4	21.9	1493.9	850.0	15.0	11.2	278.6	2.1	2.1	-0.3	301.9	328.9	9.9	78.0	1.1	102.
6.5	24.6	1745.6	825.0	13.4	9.0	260.5	2.1	2.1	0.4	302.7	326.9	8.8	74.9	1.3	101.
7.6	27.3	2004.7	800.0	12.1	8.4	275.1	3.1	3.0	-0.3	304.1	328.2	8.7	78.3	1.4	98.
8.6	30.1	2270.3	775.0	10.3	5.0	307.1	3.4	2.7	-2.1	304.9	324.9	7.1	69.7	1.6	100.
9.7	33.2	2547.8	750.0	8.6	4.6	318.7	4.8	3.2	-3.6	306.0	326.0	7.1	75.8	1.8	105.
10.7	36.0	2833.0	725.0	7.6	3.7	326.4	5.8	3.2	-4.8	307.8	327.5	6.9	76.8	2.1	111.
11.8	39.0	3111.4	700.0	5.5	1.8	328.4	6.7	3.5	-5.7	308.7	326.4	6.1	74.8	2.4	117.
12.9	41.9	3408.7	675.0	3.9	-0.2	332.8	6.9	3.2	-6.2	310.0	326.2	5.6	74.8	2.8	122.
14.0	45.1	3714.7	650.0	1.8	-0.9	339.0	7.1	2.7	-6.6	311.1	327.2	5.5	81.8	3.2	126.
15.3	49.4	4030.2	625.0	-0.8	-2.5	341.4	7.1	2.3	-6.7	311.6	326.5	5.1	88.0	3.7	131.
16.5	51.4	4355.8	600.0	-1.7	-4.5	334.6	6.8	2.9	-6.2	314.1	328.4	3.4	85.8	4.2	135.
17.9	54.9	4694.5	575.0	-2.3	-13.4	324.2	5.8	3.4	-4.7	317.3	324.7	2.4	42.1	4.6	136.
19.4	58.0	5044.5	550.0	-4.0	-17.9	334.6	5.4	2.3	-4.9	319.3	324.8	1.7	33.1	5.1	137.
20.7	61.4	5412.5	525.0	-5.7	-22.6	330.3	5.9	2.9	-5.1	321.6	325.6	1.2	24.8	5.5	138.
22.1	65.1	5793.4	500.0	-8.0	-25.4	323.6	5.8	3.6	-4.7	323.3	326.6	1.0	23.0	6.1	139.
23.6	69.6	6190.0	475.0	-10.8	-30.8	325.8	5.6	3.2	-4.6	324.7	326.8	0.6	17.3	6.5	139.
25.1	73.2	6602.9	450.0	-14.2	-34.1	327.9	6.2	3.3	-5.3	325.4	327.0	0.5	16.5	7.1	140.
25.7	76.2	7033.7	425.0	-17.0	-41.4	313.2	5.3	3.9	-3.6	327.1	328.0	0.2	9.9	7.7	140.
29.4	80.1	7485.8	400.0	-20.5	-43.8	301.4	3.4	2.9	-1.8	329.4	329.1	0.2	10.3	8.0	140.
30.0	84.2	7959.6	375.0	-24.8	-46.9	288.5	5.2	4.9	-1.6	329.7	329.3	0.1	10.7	8.4	138.
31.8	88.7	8458.2	350.0	-29.1	-46.3	296.6	6.3	5.7	-2.8	330.8	331.5	0.2	18.6	9.0	137.
33.6	92.9	8985.2	325.0	-32.6	-47.5	306.8	6.2	4.9	-3.7	331.7	332.3	0.2	26.7	9.6	135.
35.6	97.2	9543.5	300.0	-37.4	-48.3	310.6	6.9	5.2	-4.5	332.7	333.3	0.2	30.4	10.4	135.
37.6	101.8	10139.8	275.0	-41.7	99.9	297.7	8.4	7.5	-3.9	346.8	999.9	99.9	999.9	11.3	134.
40.0	107.2	10777.4	250.0	-47.2	99.9	287.4	8.8	8.4	-2.6	335.9	999.9	99.9	999.9	12.4	132.
42.1	112.9	11 6.1	225.0	-51.0	99.9	275.3	9.7	9.7	-0.9	337.3	999.9	99.9	999.9	13.5	130.
44.7	117.8	1 15.3	200.0	-58.9	99.9	266.9	8.5	8.5	0.5	339.5	999.9	99.9	999.9	14.6	126.
47.5	124.0	13044.0	175.0	-63.0	99.9	280.3	11.8	11.6	-2.1	345.0	999.9	99.9	999.9	15.9	123.
50.6	130.3	13888.4	150.0	-64.9	99.9	298.2	10.9	9.6	-5.1	358.3	999.9	99.9	999.9	18.2	121.
54.1	136.8	15108.2	125.0	-62.9	99.9	286.1	7.3	7.0	-2.0	361.1	999.9	99.9	999.9	20.2	121.
58.7	143.1	16494.0	100.0	-62.2	99.9	323.8	5.5	3.3	-4.5	407.5	999.9	99.9	999.9	21.7	120.
64.3	150.1	18247.6	75.0	-65.5	99.9	85.2	2.8	-2.8	-0.2	435.7	999.9	99.9	999.9	21.8	123.
71.5	157.5	20752.7	50.0	-58.0	99.9	86.6	4.9	-4.9	-0.3	507.1	999.9	99.9	999.9	21.0	124.
83.2	165.0	25197.4	25.0	-49.9	99.9	999.9	999.9	99.9	99.9	641.2	999.9	99.9	999.9	17.8	133.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 240
LAKE CHARLES, LOUISIANA

27 MAY 1977
1400 GMT

159 11. C

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	5.2	5.0	1010.2	25.0	21.1	310.0	3.1	2.4	-2.0	297.3	336.6	15.8	79.0	0.0	0.
0.2	5.9	94.2	1000.0	23.5	19.5	999.9	99.9	99.9	99.9	296.7	335.4	14.8	80.1	999.9	999.
1.2	8.1	315.7	975.0	22.3	18.2	999.9	999.9	99.9	99.9	297.6	333.4	13.6	77.7	999.9	999.
2.2	10.3	542.3	950.0	22.1	16.9	999.9	999.9	99.9	99.9	299.7	333.9	12.9	72.3	999.9	999.
3.1	12.5	774.3	925.0	21.1	14.4	999.9	999.9	99.9	99.9	300.9	331.2	11.3	65.6	999.9	999.
4.0	14.7	1011.4	900.0	19.8	13.3	999.9	999.9	99.9	99.9	301.9	331.1	10.8	66.5	0.7	119.
5.0	16.8	1253.7	875.0	17.4	12.7	315.8	3.7	2.6	-2.7	302.0	330.9	10.7	73.5	0.5	120.
5.1	19.7	1500.9	850.0	15.3	11.4	320.1	4.4	2.4	-3.6	302.2	329.6	10.1	77.4	1.1	125.
7.1	21.5	1754.0	825.0	14.1	7.5	336.2	5.0	2.0	-4.6	303.5	325.5	8.0	64.5	1.4	130.
8.2	24.0	2013.4	800.0	13.0	3.0	338.7	5.6	2.0	-5.2	305.0	321.9	6.0	50.6	1.7	136.
9.3	26.3	2280.0	775.0	12.1	2.1	325.3	6.3	3.6	-5.2	306.9	323.3	5.8	50.3	2.1	139.
10.4	28.9	2554.4	750.0	11.0	-0.0	322.6	6.4	4.1	-5.4	308.5	323.3	5.1	46.6	2.5	139.
11.5	31.5	2836.8	725.0	9.9	-2.5	333.5	7.4	3.3	-6.6	310.3	323.2	4.4	41.8	3.0	141.
12.9	34.2	3127.7	700.0	8.4	-12.3	339.0	9.4	3.4	-9.8	311.8	318.4	2.1	21.6	3.6	144.
13.8	36.6	3427.4	675.0	6.9	-7.9	341.1	10.3	3.3	-9.7	313.4	323.2	3.3	35.4	4.2	146.
15.0	39.4	3736.5	650.0	5.3	-7.9	334.0	11.6	5.1	-10.5	315.0	325.2	3.4	33.7	4.9	148.
16.2	42.0	4055.5	625.0	2.8	-6.6	327.1	11.9	6.5	-10.0	315.7	327.0	3.7	45.5	5.8	148.
17.6	44.9	4384.8	600.0	0.0	-8.6	326.3	11.1	6.1	-9.2	316.2	326.4	3.3	52.2	6.8	148.
18.9	47.9	4724.5	575.0	-2.7	-8.6	325.3	10.2	5.8	-8.4	316.9	327.5	3.5	63.5	7.6	148.
20.5	50.8	5075.5	550.0	-5.6	-10.8	327.8	9.0	4.8	-7.5	317.4	326.9	3.1	67.1	8.5	148.
21.9	53.8	5438.6	525.0	-8.2	-13.0	329.9	8.3	5.3	-6.5	318.5	326.9	2.7	68.4	9.2	147.
23.3	56.8	5815.1	500.0	-10.5	-14.7	303.1	8.0	7.0	-4.0	320.2	326.8	2.1	60.4	9.9	146.
24.8	60.1	6208.7	475.0	-13.5	-20.2	283.1	10.0	9.7	-2.3	321.2	326.5	1.6	57.1	10.5	144.
25.4	64.6	6618.6	450.0	-15.1	-23.1	280.5	12.4	12.2	-2.3	323.0	327.4	1.3	54.9	11.3	140.
24.0	66.9	7046.8	425.0	-19.0	-27.5	277.0	12.4	12.3	-1.5	324.6	327.8	0.9	46.7	12.3	136.
23.8	70.5	7495.9	400.0	-21.9	-28.9	274.0	11.7	11.7	-0.8	326.5	329.5	0.9	53.0	13.3	133.
21.6	74.1	7967.9	375.0	-25.1	-34.2	277.9	11.8	11.7	-1.6	328.3	330.3	0.6	42.4	14.3	130.
23.3	78.0	8465.1	350.0	-29.0	-42.0	280.8	11.4	11.2	-2.1	329.7	330.7	0.3	27.0	15.4	127.
25.2	82.0	8989.8	325.0	-33.9	-40.7	273.0	11.5	11.5	-0.6	330.1	331.3	0.3	48.3	16.5	125.
27.2	86.2	9545.2	300.0	-38.3	-45.6	264.3	10.4	10.3	1.0	331.5	332.2	0.2	48.4	17.5	123.
29.3	90.7	10137.7	275.0	-43.1	99.9	255.9	12.2	11.8	3.0	332.8	999.9	99.9	999.9	18.5	120.
31.4	95.5	10773.3	250.0	-48.0	99.9	250.2	18.9	17.8	6.4	334.8	999.9	99.9	999.9	19.9	115.
33.9	100.6	11461.6	225.0	-52.8	99.9	251.2	16.2	15.3	5.2	337.7	999.9	99.9	999.9	22.1	110.
36.5	106.0	12213.3	200.0	-57.0	99.9	246.9	13.1	12.0	5.3	342.5	999.9	99.9	999.9	23.7	107.
39.4	111.9	13049.3	175.0	-61.7	99.9	255.3	14.7	14.2	3.7	348.1	999.9	99.9	999.9	25.4	103.
42.9	118.3	13997.4	150.0	-64.9	99.9	279.5	15.1	14.9	-2.5	358.2	999.9	99.9	999.9	28.4	102.
46.6	125.5	15115.9	125.0	-64.4	99.9	294.4	12.4	11.1	-5.5	373.4	999.9	99.9	999.9	31.7	103.
51.7	133.3	16480.1	100.0	-64.4	99.9	294.6	4.1	3.7	-1.8	403.3	999.9	99.9	999.9	33.5	104.
57.0	141.0	18239.8	75.0	-64.2	99.9	300.2	3.7	3.2	-1.9	439.3	999.9	99.9	999.9	34.1	105.
78.8	143.3	20744.2	50.0	-59.1	99.9	358.5	5.0	0.1	-5.0	504.4	999.9	99.9	999.9	32.5	106.
87.1	158.0	25204.1	25.0	-49.1	99.9	999.9	999.9	99.9	99.9	643.5	999.9	99.9	999.9	29.3	108.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 247
LONGVIEW, TEXAS

27 MAY 1977
1415 GMT

161 14. C

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.0	124.0	994.9	24.4	19.6	330.0	2.1	1.1	-1.8	297.9	333.9	13.7	76.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.6	9.2	319.3	975.0	22.4	16.6	166.7	4.6	-1.1	4.5	297.7	330.3	12.3	65.6	0.1	260.
1.4	11.4	544.7	950.0	22.3	14.7	157.6	3.7	-1.4	3.4	299.8	329.8	11.2	62.3	0.2	326.
2.1	13.9	774.3	925.0	20.6	14.2	164.1	3.0	-0.8	2.9	300.3	330.1	11.1	66.8	0.4	331.
2.9	16.3	1012.4	900.0	18.6	12.5	163.6	2.2	-0.6	2.1	300.7	328.3	10.2	67.5	0.5	335.
3.7	18.8	1254.1	875.0	16.9	11.5	186.7	1.1	0.1	1.1	301.3	328.0	9.8	70.5	0.6	336.
4.6	21.2	1501.0	850.0	15.1	9.0	177.1	0.5	-0.0	0.6	302.0	328.4	8.6	67.1	0.6	338.
5.4	23.9	1753.6	825.0	13.1	9.1	181.9	1.0	0.0	1.0	302.5	326.8	8.9	76.7	0.6	338.
6.2	26.4	2012.5	800.0	12.3	6.2	253.0	3.2	3.0	0.9	304.3	325.3	7.6	67.2	0.7	344.
7.0	29.1	2279.2	775.0	13.7	-5.3	280.6	4.2	4.1	-0.8	309.1	318.0	3.3	26.9	0.7	1.
7.9	31.9	2555.2	750.0	13.1	-8.4	296.0	8.2	7.3	-3.6	310.4	319.0	2.7	21.4	0.6	29.
8.8	34.7	2838.7	725.0	10.7	-6.6	310.6	10.5	9.0	-6.9	311.2	320.8	3.2	25.0	0.8	71.
9.7	37.7	3130.7	700.0	8.0	-5.1	317.9	11.4	7.6	-8.4	311.3	322.5	3.7	39.0	1.2	100.
10.7	40.2	3428.5	675.0	5.8	-5.1	316.3	11.5	7.9	-8.3	312.1	323.9	3.9	45.5	1.8	113.
11.7	43.0	3734.7	650.0	3.8	-6.3	309.0	11.6	9.0	-7.3	313.3	324.4	3.7	47.8	2.4	119.
12.7	46.0	4053.0	625.0	1.0	-7.6	300.2	11.0	9.5	-5.5	313.6	324.1	3.5	52.6	3.1	120.
13.8	49.1	4380.9	600.0	-1.6	-10.8	293.7	10.9	9.5	-5.3	314.2	322.8	2.8	46.4	3.9	120.
15.0	52.0	4718.4	575.0	-4.0	-12.3	297.1	10.2	9.1	-4.6	315.3	323.3	2.6	52.3	4.6	120.
16.2	55.3	5067.7	550.0	-5.8	-14.7	286.9	10.2	9.7	-3.0	316.0	323.0	2.2	53.3	5.3	119.
17.5	58.4	5429.4	525.0	-9.3	-15.3	278.7	10.7	10.6	-1.6	317.1	324.3	2.2	61.7	6.1	117.
18.9	61.9	5804.9	500.0	-11.9	-13.3	268.4	10.2	10.2	0.3	318.6	324.4	1.8	58.6	6.7	114.
19.9	65.7	6195.6	475.0	-15.0	-19.1	259.8	11.4	11.2	2.2	319.4	325.1	1.8	76.7	7.5	111.
21.3	69.7	6602.8	450.0	-17.7	-21.5	245.6	12.1	11.1	4.8	321.0	325.9	1.5	71.8	8.2	107.
22.7	72.2	7028.3	425.0	-21.2	-24.3	249.8	13.6	12.7	4.7	321.8	326.0	1.3	76.0	9.0	103.
24.3	76.2	7473.8	400.0	-24.4	-35.6	254.4	15.4	14.9	4.2	323.2	324.8	0.5	34.4	10.4	99.
26.0	80.1	7940.3	375.0	-27.8	-42.7	250.1	15.3	14.3	5.2	325.2	326.0	0.2	21.8	11.7	95.
27.4	84.0	8432.9	350.0	-31.4	-44.9	250.7	14.5	13.7	4.8	326.4	327.0	0.2	19.8	13.1	92.
29.3	88.2	8953.1	325.0	-35.5	-50.6	245.4	12.0	10.9	5.0	327.8	328.2	0.1	16.5	14.3	90.
31.0	92.6	9504.8	300.0	-40.2	99.9	223.8	10.1	7.0	7.3	328.8	999.9	99.9	999.9	15.3	88.
33.1	97.2	10088.2	275.0	-43.9	99.9	189.7	9.9	1.6	9.8	331.6	999.9	99.9	999.9	15.8	84.
35.3	102.0	10726.8	250.0	-49.1	99.9	194.0	9.3	2.6	9.7	333.0	999.9	99.9	999.9	16.1	80.
37.8	107.4	11411.1	225.0	-53.1	99.9	219.8	7.4	4.7	5.8	337.1	999.9	99.9	999.9	16.9	76.
39.9	112.8	12144.7	200.0	-58.6	99.9	230.3	8.9	5.8	5.6	343.1	999.9	99.9	999.9	17.9	75.
42.7	118.8	12928.9	175.0	-61.9	99.9	253.7	14.3	13.7	4.0	347.8	999.9	99.9	999.9	19.5	72.
45.8	125.4	13949.0	150.0	-63.2	99.9	284.8	9.4	9.0	-2.7	361.2	999.9	99.9	999.9	21.3	76.
50.0	132.3	15077.0	125.0	-61.8	99.9	275.8	9.7	9.5	-1.1	383.1	999.9	99.9	999.9	23.3	77.
54.8	139.8	16453.9	100.0	-63.4	99.9	314.3	6.2	4.4	-4.3	404.3	999.9	99.9	999.9	25.0	79.
60.7	147.3	18210.9	75.0	-64.9	99.9	11.4	6.3	-1.2	-6.1	437.1	999.9	99.9	999.9	25.8	83.
69.0	155.5	20719.3	50.0	-60.6	99.9	80.5	5.4	-5.3	-0.9	500.9	999.9	99.9	999.9	22.9	83.
82.3	163.7	25149.9	25.0	-49.8	99.9	99.8	9.5	-9.4	1.6	642.9	999.9	99.9	999.9	18.3	85.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 255
VICTORIA, TEXAS

22 MAY 1977
1400 GMT

163 12. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.1	77.0	1004.0	24.9	22.0	180.0	1.0	0.0	1.0	297.4	341.1	16.8	84.0	0.0	0.
0.1	7.9	103.2	1000.0	23.9	21.7	999.9	99.9	99.9	99.9	297.0	340.2	16.6	88.2	999.9	999.
1.2	9.9	324.8	976.0	22.3	20.4	999.9	999.9	99.9	99.9	297.6	338.5	15.7	88.8	999.9	999.
2.0	11.9	551.1	950.0	20.2	19.0	999.9	999.9	99.9	99.9	297.7	336.4	14.8	92.5	999.9	999.
2.9	14.0	781.5	925.0	19.7	17.6	174.6	5.1	-0.5	5.1	299.6	334.9	13.8	93.2	0.7	2.
3.9	16.0	1017.0	900.0	18.2	7.9	152.6	5.6	-2.5	5.0	301.3	321.5	7.5	48.8	1.6	357.
4.9	18.1	1258.1	875.0	17.8	7.5	139.0	7.0	-4.6	5.2	303.9	324.4	7.6	51.7	1.6	341.
5.5	20.5	1506.9	850.0	16.9	6.9	137.6	7.0	-4.7	5.2	303.9	323.0	6.8	48.2	1.9	337.
6.6	22.7	1761.0	825.0	15.9	4.0	149.2	4.7	-2.4	4.0	305.4	310.7	4.1	30.0	2.1	338.
7.6	25.1	2022.1	800.0	15.5	-2.0	196.6	2.9	0.8	2.7	307.4	317.3	2.7	26.7	2.2	342.
8.4	27.3	2290.4	775.0	14.2	-9.7	225.0	3.4	2.4	2.4	309.1	317.3	2.7	13.0	2.3	347.
9.7	29.8	2566.9	750.0	14.2	-13.8	245.8	3.7	3.4	1.5	312.1	317.6	1.8	13.0	2.3	354.
10.7	32.3	2852.7	725.0	13.4	-6.8	252.7	5.7	5.4	1.7	314.2	323.9	3.2	24.0	2.4	2.
11.7	34.9	3145.1	700.0	10.9	-3.7	260.7	6.6	6.5	1.1	314.6	327.1	4.2	35.7	2.4	8.
12.9	37.3	3448.6	675.0	8.9	-3.0	273.7	7.2	7.2	-0.5	315.5	329.2	4.6	43.3	2.5	14.
14.1	40.1	3759.7	650.0	6.1	-3.7	280.5	8.2	8.0	-1.5	315.9	329.4	4.5	46.2	2.6	20.
15.2	42.5	4079.9	625.0	3.2	-3.7	286.4	8.6	8.2	-2.4	315.2	330.2	4.7	60.2	2.8	30.
16.4	45.5	4409.5	600.0	0.7	-6.1	291.9	8.5	7.9	-3.2	316.5	328.8	4.1	62.0	3.1	40.
17.7	48.5	4749.4	575.0	-2.6	-7.8	294.5	9.2	8.4	-3.8	319.7	328.2	3.7	67.7	3.4	55.
19.0	51.2	5100.3	550.0	-5.0	-8.7	296.4	10.8	9.7	-4.8	317.0	328.1	3.6	80.8	3.9	69.
20.4	54.4	5462.9	525.0	-8.8	-11.3	299.7	11.7	10.6	-5.0	317.9	327.4	3.1	81.6	4.8	78.
21.8	57.3	5839.5	500.0	-11.3	-17.8	297.8	11.9	11.8	-1.6	319.7	325.6	1.9	60.2	5.5	82.
23.2	60.6	6231.8	475.0	-13.9	-30.7	284.8	12.2	12.1	1.1	320.9	326.0	1.5	55.6	6.5	84.
24.7	64.0	6640.4	450.0	-16.3	-36.6	278.4	12.4	12.4	-0.1	322.8	324.1	0.4	15.2	7.5	83.
26.3	67.3	7068.9	425.0	-19.7	-51.1	289.3	14.2	13.4	-4.7	325.0	325.3	0.1	3.8	8.7	86.
27.9	70.9	7518.0	400.0	-21.5	-51.5	303.7	15.5	15.4	-13.3	326.5	327.0	0.1	4.6	10.1	91.
29.5	74.5	7990.1	375.0	-25.3	-52.1	311.1	20.9	15.6	-13.6	328.1	328.4	0.1	6.1	11.7	97.
31.1	78.5	8486.3	350.0	-29.5	-53.0	309.2	20.7	15.0	-13.1	329.1	329.4	0.1	8.0	13.4	101.
32.9	82.4	9010.0	325.0	-34.1	-57.2	309.7	20.6	15.0	-14.8	329.6	329.9	0.0	7.5	15.3	105.
34.8	86.5	9565.7	300.0	-39.4	-59.1	314.5	23.4	16.7	-16.4	331.2	331.4	0.0	6.2	17.6	109.
36.9	91.2	10158.5	275.0	-42.5	99.9	319.4	27.3	17.8	-20.7	333.7	999.9	99.9	999.9	20.5	113.
39.1	95.8	10795.6	250.0	-47.4	99.9	319.3	24.2	15.6	-18.5	335.6	999.9	99.9	999.9	23.7	117.
41.5	100.8	11487.9	225.0	-52.4	99.9	293.9	23.7	23.5	-11.8	334.3	999.9	99.9	999.9	26.8	119.
44.0	105.6	12239.3	200.0	-54.2	99.9	306.0	29.9	24.2	-17.5	346.9	999.9	99.9	999.9	30.7	119.
47.0	112.7	13094.0	175.0	-59.7	99.9	314.8	29.5	21.0	-20.8	351.3	999.9	99.9	999.9	35.9	121.
50.3	119.3	14035.2	150.0	-64.2	99.9	311.5	28.8	20.0	-17.7	353.6	999.9	99.9	999.9	41.6	122.
54.7	126.7	15147.7	125.0	-66.3	99.9	307.1	17.7	13.8	-10.5	375.0	999.9	99.9	999.9	46.1	123.
58.1	135.3	16456.9	100.0	-67.6	99.9	318.4	8.4	5.6	-6.3	397.1	999.9	99.9	999.9	49.8	124.
63.7	144.0	18232.9	75.0	-68.	99.9	14.1	3.3	-0.9	-3.2	436.7	999.9	99.9	999.9	50.8	124.
71.3	153.7	20732.0	50.0	-60	99.9	85.9	6.6	-6.6	-0.5	500.2	999.9	99.9	999.9	49.7	126.
83.4	164.0	24175.5	25.0	-47.8	99.9	999.9	999.9	99.9	99.9	647.3	999.9	99.9	999.9	46.3	128.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 2 0
STEPHENVILLE, TEXAS

27 MAY 1977
1400 GMT

155 23. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	PH FCT	RANGE KM	AZ DG
0.0	10.0	390.0	964.4	23.0	19.0	180.0	2.6	0.0	2.6	299.2	337.5	14.5	78.0	0.0	0.
99.9	99.9	99.0	1000.0	99.9	99.9	99.0	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.0	975.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.4	11.9	530.6	950.3	22.4	17.9	194.6	4.1	1.0	4.0	299.9	336.5	13.3	75.9	0.2	21.
1.1	13.6	752.5	925.0	20.9	14.8	195.7	6.2	1.8	6.0	300.5	331.7	11.6	68.5	0.3	20.
1.9	15.9	999.7	900.0	20.5	10.6	187.7	10.9	1.5	10.8	302.7	327.4	9.3	53.1	0.7	17.
3.1	18.2	1243.7	875.0	19.1	6.5	177.4	12.1	-0.1	12.1	303.6	323.1	7.0	44.0	1.5	8.
4.0	20.5	1491.1	850.0	17.2	4.2	186.4	10.9	1.2	10.8	304.2	321.4	6.1	41.9	2.2	6.
4.9	22.8	1745.6	825.0	15.7	13.7	183.5	9.1	0.2	9.0	305.2	318.3	12.1	89.5	2.7	7.
5.7	25.3	2007.0	800.0	14.3	8.5	207.5	8.9	3.4	8.2	306.4	330.9	8.8	68.2	3.2	8.
6.5	27.8	2274.7	775.0	12.7	4.7	212.6	9.5	4.0	7.1	307.4	327.3	7.0	58.6	3.6	11.
7.6	30.4	2551.1	750.0	13.2	2.5	220.3	7.7	5.0	5.8	310.9	326.7	6.1	48.3	4.0	14.
8.7	33.2	2835.0	725.0	12.1	1.2	227.7	7.4	5.5	5.0	312.7	329.6	5.8	47.1	4.5	17.
9.9	35.8	3129.1	700.0	9.6	-0.8	253.8	5.9	5.6	1.6	313.1	328.4	5.2	48.2	4.9	21.
11.3	38.4	3430.0	675.0	7.3	-2.1	264.5	6.9	6.9	0.7	313.8	328.3	4.9	51.4	5.1	25.
12.5	41.2	3739.7	650.0	4.8	-2.3	262.5	9.8	9.7	1.3	314.4	329.2	5.0	60.1	5.5	31.
13.9	44.1	4059.1	625.0	1.0	-3.8	264.5	13.1	13.0	1.3	314.7	328.5	4.6	65.8	6.0	38.
15.1	47.1	4384.5	600.0	-0.0	-9.1	272.0	15.6	15.6	-0.6	316.1	325.9	3.2	50.4	6.8	48.
16.5	50.1	4725.5	575.0	-3.1	-12.5	275.7	16.8	16.7	-1.7	316.3	324.3	2.6	48.5	7.5	53.
17.9	53.1	5075.3	550.0	-6.4	-15.4	273.1	18.2	18.1	-1.0	316.9	322.9	2.1	46.5	8.8	56.
19.2	56.0	5434.7	525.0	-9.7	-17.6	269.5	18.0	18.0	0.2	316.9	322.6	1.8	42.4	10.1	63.
20.5	59.4	5812.1	500.0	-11.4	-29.0	266.5	18.4	18.3	1.1	319.2	321.5	0.7	21.7	11.5	66.
21.9	62.7	6204.4	475.0	-13.6	-35.2	277.1	14.7	14.4	-1.5	321.1	322.5	0.4	14.2	12.7	69.
23.4	66.0	6613.7	450.0	-15.0	-34.5	280.9	13.0	12.9	-0.5	322.0	323.6	0.4	19.0	13.9	72.
24.8	69.6	7040.0	425.0	-19.6	-40.0	296.0	24.3	21.3	-10.6	323.9	324.9	0.3	14.3	15.4	77.
25.6	73.1	7488.4	400.0	-22.4	-42.1	296.7	25.8	23.1	-11.6	325.7	326.5	0.2	14.9	17.4	82.
28.5	77.0	7958.2	375.0	-26.7	-44.4	293.0	24.3	22.3	-9.5	326.3	327.0	0.2	16.7	20.1	87.
30.5	80.9	8452.9	350.0	-30.2	-47.7	297.1	23.1	20.5	-10.5	327.3	328.6	0.1	16.0	22.6	90.
32.4	84.9	8975.3	325.0	-34.4	-51.1	304.0	25.2	20.6	-14.4	328.3	329.7	0.1	16.5	24.9	93.
34.7	89.0	9529.8	300.0	-39.6	-54.4	309.2	24.0	21.7	-17.7	331.0	331.3	0.1	16.9	28.0	98.
36.9	93.5	10121.3	275.0	-43.5	99.9	317.9	32.5	23.8	-22.1	332.2	999.9	99.9	999.9	31.4	102.
39.4	98.4	10757.9	250.0	-47.6	99.9	315.4	37.0	26.0	-26.4	335.4	999.9	99.9	999.9	36.1	106.
42.0	103.3	11446.1	225.0	-52.5	99.9	306.4	31.9	25.6	-19.1	338.0	999.9	99.9	999.9	41.2	110.
45.0	109.0	12203.7	200.0	-57.7	99.9	297.5	26.6	23.6	-12.4	342.8	999.9	99.9	999.9	46.3	111.
48.0	115.0	13053.1	175.0	-58.4	99.9	302.9	28.8	24.3	-15.4	353.6	999.9	99.9	999.9	50.4	112.
51.5	121.5	14014.8	150.0	-60.7	99.9	304.4	24.2	19.9	-13.6	365.5	999.9	99.9	999.9	56.9	113.
55.9	129.0	15144.3	125.0	-62.4	99.9	302.4	16.3	13.8	-8.7	392.3	999.9	99.9	999.9	61.5	114.
61.0	137.0	16514.0	100.0	-65.5	99.9	297.9	8.0	7.9	-4.2	401.1	999.9	99.9	999.9	64.7	114.
67.0	145.0	18271.6	75.0	-63.7	99.9	350.3	5.6	1.0	-5.6	439.3	999.9	99.9	999.9	67.5	114.
74.4	154.0	20774.6	50.0	-58.6	99.9	76.2	5.3	-6.1	-1.5	505.5	999.9	99.9	999.9	66.5	115.
87.5	163.0	25193.2	25.0	-50.1	99.9	90.5	3.9	-3.9	0.0	640.7	999.9	99.9	999.9	63.8	118.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 261
DEL RIO, TEXAS

27 MAY 1977
1400 GMT

159 12. 8

TIME MIN	CNTCT	WEIGHT GRM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.0	714.0	972.0	22.6	19.9	110.0	4.6	-4.3	1.6	299.1	338.2	15.3	85.0	0.0	0.
99.9	99.9	99.9	1003.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.9	10.8	822.1	950.0	20.9	19.9	142.7	6.2	-3.8	4.9	294.4	339.5	15.7	94.0	0.4	312.
1.9	13.0	752.8	925.0	18.8	18.1	155.2	6.5	-2.7	5.9	294.5	336.1	14.3	95.5	0.8	318.
3.9	15.1	989.6	900.0	18.0	18.3	180.4	8.5	0.7	8.5	301.1	340.7	14.9	95.5	1.1	328.
4.0	17.2	1232.7	875.0	17.9	17.2	172.0	8.9	-0.7	8.3	302.4	340.6	14.3	95.3	1.3	336.
5.1	19.5	1481.3	850.0	17.1	16.3	169.0	8.4	-1.4	8.7	304.1	341.7	13.9	95.2	1.7	337.
6.0	21.5	1715.7	825.0	16.0	12.6	193.5	8.5	2.0	8.3	305.5	336.7	11.4	80.8	2.1	342.
7.1	24.0	1983.3	800.0	15.7	11.1	221.4	8.6	5.7	6.5	309.0	336.2	10.5	69.4	2.5	352.
8.2	26.2	2220.2	775.0	15.4	6.4	255.9	5.1	4.9	1.2	311.7	334.2	7.4	51.1	2.8	366.
9.4	28.7	2543.5	750.0	15.0	1.1	253.7	4.5	4.3	1.3	313.3	330.3	5.0	36.6	2.8	6.
10.7	31.2	2837.0	725.0	15.0	-4.1	233.4	4.6	3.7	2.7	316.0	327.8	3.9	26.3	3.0	11.
11.9	33.8	3132.4	700.0	12.4	-8.3	244.8	4.4	4.0	1.9	316.4	325.5	2.9	22.5	3.3	18.
13.1	36.2	3435.6	675.0	9.8	-9.7	251.8	4.3	4.1	1.3	316.6	325.1	2.7	24.2	3.5	20.
14.3	38.9	3747.5	650.0	6.7	-9.6	255.6	3.7	3.6	0.9	315.5	325.4	2.9	30.2	3.6	24.
15.5	41.5	4058.3	625.0	4.0	-10.0	256.8	5.1	4.9	1.3	317.0	325.9	2.9	35.3	3.8	27.
16.7	44.4	4399.4	600.0	0.9	-10.5	256.4	7.7	7.5	1.8	317.2	326.1	2.9	42.1	4.1	32.
18.0	47.3	4738.8	575.0	-2.2	-11.3	258.7	11.0	10.8	2.2	317.5	326.1	2.8	46.4	4.7	38.
19.3	50.3	5090.1	550.0	-5.4	-11.3	261.4	13.9	13.7	2.1	317.7	326.8	2.9	63.1	5.4	45.
20.7	53.1	5453.5	525.0	-9.2	-13.3	272.0	14.6	14.6	-0.5	317.4	325.6	2.6	72.7	6.4	52.
22.5	56.1	5833.0	500.0	-9.7	-38.2	297.0	13.9	12.4	-6.3	321.2	322.2	0.3	7.6	7.4	61.
24.1	59.4	6224.9	475.0	-10.9	-41.0	303.0	15.4	12.9	-8.4	324.5	325.2	0.2	8.6	8.2	70.
25.7	62.9	6639.1	450.0	-13.4	-46.3	302.3	15.6	13.0	-8.2	326.4	327.3	0.2	8.2	9.2	77.
27.4	66.1	7059.8	425.0	-17.2	-47.2	304.6	15.9	12.4	-9.9	326.9	327.6	0.2	8.2	10.3	84.
29.2	69.9	7520.9	400.0	-21.3	-44.5	307.0	16.9	13.4	-10.1	327.4	328.0	0.2	10.2	11.6	90.
31.2	73.3	7997.3	375.0	-24.8	-47.0	309.2	17.6	13.7	-11.1	328.8	329.4	0.1	10.5	13.3	95.
33.2	77.3	8491.4	350.0	-28.7	-49.4	313.2	17.9	13.0	-12.2	330.0	330.5	0.1	11.5	15.0	100.
35.2	81.3	9017.5	325.0	-32.8	-51.6	314.2	19.9	14.3	-13.9	331.5	331.9	0.1	12.1	17.0	104.
37.4	85.6	9575.6	300.0	-37.3	-53.1	319.6	22.2	14.4	-16.9	332.7	333.1	0.1	17.4	19.3	109.
39.7	90.0	10170.0	275.0	-42.0	99.9	315.6	23.4	16.3	-16.7	334.3	999.9	99.9	999.9	22.2	113.
42.2	95.0	10807.9	250.0	-47.5	99.9	309.1	20.4	16.0	-12.6	335.5	999.9	99.9	999.9	25.3	115.
44.8	100.0	11497.7	225.0	-51.7	99.9	292.3	18.9	17.5	-7.2	339.3	999.9	99.9	999.9	28.3	116.
47.6	105.5	12251.6	200.0	-57.5	99.9	271.8	22.5	22.5	-0.7	341.7	999.9	99.9	999.9	31.8	116.
50.8	111.7	13096.5	175.0	-60.7	99.9	282.9	27.4	26.7	-6.1	349.7	999.9	99.9	999.9	36.1	112.
54.3	118.3	14044.4	150.0	-62.3	99.9	294.0	23.0	21.0	-9.3	362.7	999.9	99.9	999.9	41.8	111.
58.3	125.9	15159.1	125.0	-64.3	99.9	297.1	19.6	17.5	-8.9	376.8	999.9	99.9	999.9	46.4	112.
62.2	134.3	16506.9	100.0	-69.5	99.9	312.6	9.6	7.0	-6.5	393.4	999.9	99.9	999.9	50.8	113.
69.0	143.0	18229.8	75.0	-66.6	99.9	20.1	3.8	-1.3	-3.6	433.3	999.9	99.9	999.9	52.1	114.
77.1	152.3	20728.0	50.0	-60.3	99.9	77.7	7.1	-6.9	-1.5	501.4	999.9	99.9	999.9	50.2	115.
90.0	162.0	25164.3	25.0	-52.0	99.9	999.9	999.9	99.9	99.9	635.2	999.9	99.9	999.9	46.9	117.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 265
MIDLAND, TEXAS

27 MAY 1977
1400 GMT

144 20. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.7	873.0	911.7	23.9	17.9	210.0	5.2	2.6	4.5	305.1	343.8	14.3	69.0	0.0	0.
99.9	99.0	99.0	1003.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	96.9	973.0	99.0	99.9	99.9	99.9	99.0	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.0	99.9	99.0	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.0	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	15.5	992.1	900.0	23.1	99.9	214.4	5.7	3.5	4.5	305.3	999.9	99.9	999.9	969.9	999.
1.5	17.9	1227.6	875.0	20.7	19.0	224.5	4.0	2.9	2.8	305.3	346.1	15.1	84.4	0.1	26.
2.7	20.3	1479.4	850.0	22.7	11.3	284.3	5.2	5.0	-1.2	310.0	336.6	10.6	51.6	0.4	33.
3.7	22.6	1738.8	825.0	21.6	1.4	293.5	5.3	4.9	-2.1	311.4	326.5	5.1	26.2	C.6	50.
4.9	25.2	2004.4	800.0	19.6	-1.2	283.7	4.8	6.6	-1.6	312.0	325.1	4.4	24.6	0.4	73.
5.8	27.5	2276.1	775.0	14.9	-2.1	283.6	7.0	6.8	-1.6	312.0	324.6	4.2	27.3	1.1	85.
7.0	30.2	2554.2	750.0	14.7	-2.4	281.1	7.7	7.5	-1.5	312.2	324.9	4.3	31.4	1.5	89.
8.2	32.9	2838.8	725.0	11.2	-3.6	266.4	7.7	7.7	0.5	311.7	323.8	4.1	35.2	2.0	93.
9.5	35.5	3130.4	700.0	9.1	-5.3	247.6	6.8	6.3	2.6	312.6	323.7	3.7	35.6	2.6	94.
10.9	38.2	3430.2	675.0	6.5	-6.9	249.4	8.2	7.7	2.9	312.9	323.1	3.4	37.7	3.1	91.
11.8	40.9	3738.4	650.0	3.9	-8.0	247.0	11.8	10.8	4.6	313.4	323.2	3.2	41.3	3.6	87.
12.9	43.5	4054.6	625.0	2.4	-8.1	245.7	14.4	11.9	8.1	315.2	325.3	3.3	45.7	4.2	85.
14.2	46.4	4385.0	600.0	-0.5	-8.4	231.1	15.2	11.5	9.5	315.5	325.9	3.4	55.2	5.0	81.
15.5	49.4	4727.5	575.0	-3.7	-10.1	237.6	17.6	14.8	9.4	315.7	325.2	3.1	61.1	6.1	76.
16.8	52.1	5077.3	550.0	-5.8	-13.5	245.1	17.1	15.6	7.2	317.2	322.5	1.7	36.7	7.3	72.
18.2	55.2	5434.9	525.0	-7.4	-35.0	258.4	15.5	15.2	3.1	319.6	320.8	0.4	8.8	8.7	70.
19.6	58.2	5815.7	500.0	-8.7	-34.8	273.7	16.9	16.9	-1.1	322.4	323.8	0.6	10.0	10.0	70.
21.3	61.6	6211.5	475.0	-10.8	-35.5	284.4	18.0	17.3	-5.1	324.7	326.1	0.4	10.6	11.3	72.
23.0	64.9	6624.5	450.0	-14.1	-35.1	298.0	19.0	16.6	-9.2	325.5	327.0	0.4	14.9	12.9	75.
24.7	68.3	7055.6	425.0	-17.4	-37.3	294.9	22.5	20.4	-9.5	326.7	328.0	0.4	15.7	14.3	80.
26.3	71.7	7504.2	400.0	-21.4	-39.0	291.4	22.7	21.1	-9.7	327.2	328.3	0.3	18.5	16.1	85.
28.0	75.3	7978.2	375.0	-25.6	-43.0	287.8	23.1	21.0	-6.8	327.9	328.6	0.2	17.7	18.0	88.
29.9	79.3	8474.2	350.0	-29.7	-46.4	292.1	20.8	19.3	-7.9	328.7	329.3	0.2	17.9	20.3	91.
31.6	83.0	8997.8	325.0	-33.8	-49.8	295.6	24.2	21.8	-10.5	330.1	330.6	0.1	18.0	22.4	92.
33.4	87.0	9554.9	300.0	-38.2	-51.8	299.0	26.0	22.7	-12.6	331.6	332.0	0.1	22.1	24.6	94.
35.5	91.5	10147.5	275.0	-42.8	99.9	300.0	25.4	24.6	-14.2	333.2	999.9	99.9	999.9	27.1	97.
37.9	96.0	10782.9	250.0	-48.1	99.9	301.1	23.8	24.7	-14.9	334.6	999.9	99.9	999.9	30.4	99.
40.0	100.9	11471.9	225.0	-52.1	99.9	299.5	24.4	21.2	-12.0	338.7	999.9	99.9	999.9	34.1	102.
42.5	104.2	12227.7	200.0	-56.8	99.9	290.9	20.4	19.0	-7.3	342.9	999.9	99.9	999.9	37.6	104.
45.4	111.9	13045.9	175.0	-59.6	99.9	283.5	23.1	22.4	-5.1	351.6	999.9	99.9	999.9	40.8	105.
48.4	117.8	14071.2	150.0	-59.3	99.9	287.0	20.0	19.2	-5.8	359.0	999.9	99.9	999.9	44.3	105.
52.1	124.7	15159.5	125.0	-65.1	99.9	282.9	15.9	15.5	-3.5	377.0	999.9	99.9	999.9	48.9	105.
56.0	132.0	16516.6	100.0	-67.1	99.9	281.7	5.4	5.3	-1.1	398.0	999.9	99.9	999.9	52.2	105.
61.1	139.5	18257.5	75.0	-64.1	99.9	266.6	4.6	4.6	0.3	438.6	999.9	99.9	999.9	54.4	104.
66.6	147.3	20788.6	50.0	-57.4	99.9	102.0	6.3	-6.2	1.3	508.3	999.9	99.9	999.9	54.9	103.
82.9	155.3	25248.2	25.0	-49.4	99.9	78.0	6.9	-6.7	-1.4	643.1	999.9	99.9	999.9	52.3	106.
														47.4	107.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 327
NASHVILLE, TENNESSEE

27 MAY 1977
1500 GMT

158 9. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.5	190.0	991.5	25.4	18.1	190.0	5.3	0.9	5.2	299.3	334.6	13.3	64.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	96.9	999.9	999.9	999.
0.9	9.0	326.9	975.0	22.7	16.2	162.1	4.5	-1.4	4.3	297.6	329.3	12.8	68.6	0.3	344.
1.0	11.1	557.4	950.0	19.5	15.6	167.2	5.1	-1.1	5.0	297.3	328.2	11.8	77.8	0.9	344.
4.2	13.4	791.8	925.0	17.3	15.0	171.1	5.5	-0.9	5.5	297.0	327.9	11.7	86.4	1.3	346.
5.7	15.8	1015.8	900.0	16.4	11.5	154.5	5.9	-2.5	5.3	298.4	324.6	9.8	74.9	1.7	346.
6.4	17.9	1255.7	875.0	15.7	9.8	140.5	5.2	-3.3	4.0	300.1	323.9	8.7	67.8	2.0	343.
7.4	20.3	1501.7	850.0	14.2	8.1	113.1	5.7	-5.2	2.2	301.1	322.1	8.0	66.2	2.3	338.
8.5	22.6	1753.9	825.0	13.8	6.9	91.9	6.7	-6.7	0.2	303.2	321.6	6.6	54.8	2.5	331.
9.5	25.1	2012.9	800.0	12.1	2.5	78.7	7.2	-7.1	-1.4	304.1	320.3	5.7	51.6	2.7	322.
10.8	27.4	2279.4	775.0	10.3	2.8	71.8	8.7	-7.8	-2.3	304.9	322.0	6.1	55.8	3.0	312.
11.9	30.0	2550.4	750.0	8.1	0.4	69.6	9.0	-8.4	-3.1	305.4	320.4	5.3	57.9	3.3	303.
13.0	32.7	2829.1	725.0	5.3	-1.4	70.2	8.4	-8.1	-2.0	305.3	319.0	4.8	61.7	3.7	296.
14.2	35.3	3115.5	700.0	4.0	-1.8	85.9	6.9	-6.8	0.7	306.9	320.8	4.9	66.3	4.2	292.
14.4	37.9	3411.2	675.0	3.2	-2.6	102.5	5.4	-5.3	1.2	309.3	322.9	4.7	65.6	4.6	291.
14.8	40.5	3717.1	650.0	3.0	-24.1	90.0	9.6	-9.6	-0.0	312.3	315.1	0.8	11.6	5.1	286.
14.1	43.4	4033.9	625.0	1.5	-26.6	86.0	11.5	-11.5	-0.8	314.3	316.6	0.7	10.1	5.9	290.
13.3	46.4	4361.3	600.0	-0.4	-27.9	93.3	10.9	-10.9	-1.3	315.7	317.8	0.6	10.3	6.7	284.
20.7	49.4	4700.7	575.0	-2.3	-29.2	78.4	8.9	-8.7	-1.8	317.3	319.3	0.6	10.5	7.5	281.
22.1	52.3	5051.6	550.0	-4.6	-30.5	75.7	7.8	-7.5	-1.9	319.6	320.5	0.5	11.1	8.1	279.
23.5	55.4	5416.0	525.0	-7.4	-29.5	81.1	7.0	-6.9	-1.1	319.5	321.7	0.6	15.0	8.7	278.
25.0	58.4	5793.8	500.0	-10.2	-30.8	90.6	8.2	-8.2	0.1	320.7	322.7	0.6	16.5	9.3	277.
24.5	61.9	6187.0	475.0	-12.3	-33.8	106.2	9.7	-9.3	2.7	322.7	324.3	0.5	14.6	10.2	277.
25.1	65.2	6595.3	450.0	-14.9	-36.1	101.0	8.3	-8.1	1.6	324.5	325.9	0.4	14.3	11.3	278.
29.9	69.7	7027.9	425.0	-18.1	-38.0	114.4	7.8	-7.1	3.2	325.7	326.9	0.3	15.5	11.9	278.
31.6	72.2	7477.9	400.0	-21.5	-40.4	123.7	11.9	-8.5	8.1	326.9	327.9	0.3	16.4	12.7	280.
33.5	76.0	7949.5	375.0	-25.5	-42.9	134.1	10.5	-7.5	7.3	327.4	328.3	0.2	18.2	13.9	284.
35.5	80.1	8445.0	350.0	-30.0	-42.1	117.4	6.1	-5.4	2.8	329.4	329.4	0.3	26.4	14.7	285.
37.2	84.0	8969.6	325.0	-33.9	-45.7	93.6	2.7	-2.7	0.2	330.1	330.9	0.2	28.5	15.2	295.
39.3	88.2	9529.0	300.0	-38.6	99.9	102.4	3.0	-2.9	0.6	330.9	999.9	99.9	999.9	15.4	285.
41.5	92.8	10114.9	275.0	-44.0	99.9	106.3	3.4	-3.2	0.9	331.5	999.9	99.9	999.9	15.9	285.
43.8	97.5	10747.8	250.0	-49.1	99.9	99.9	4.0	-3.9	0.7	333.1	999.9	99.9	999.9	16.4	295.
45.4	102.5	11430.6	225.0	-54.7	99.9	85.1	4.2	-4.2	-0.4	334.7	999.9	99.9	999.9	17.0	285.
48.5	109.2	12174.5	200.0	-60.3	99.9	103.9	5.9	-5.7	1.4	337.3	999.9	99.9	999.9	17.9	284.
52.6	114.0	12999.9	175.0	-63.5	99.9	181.9	3.2	0.1	3.2	344.9	999.9	99.9	999.9	18.4	285.
56.2	123.3	13904.0	150.0	-63.9	99.9	319.3	2.1	1.4	-1.6	359.9	999.9	99.9	999.9	18.2	286.
60.7	127.5	15071.7	125.0	-61.1	99.9	298.6	5.4	4.7	-2.6	398.4	999.9	99.9	999.9	17.3	285.
65.8	135.3	16451.8	100.0	-62.5	99.9	28.0	5.2	-2.4	-4.6	406.9	999.9	99.9	999.9	16.7	282.
72.5	142.7	18218.4	75.0	-64.0	99.9	80.0	4.9	-4.8	-0.8	438.7	999.9	99.9	999.9	18.0	279.
81.1	150.7	20754.1	50.0	-55.2	99.9	79.1	5.6	-5.5	-1.1	513.4	999.9	99.9	999.9	21.1	276.
95.3	159.0	25213.2	25.0	-50.0	99.9	90.9	5.3	-5.3	0.1	641.0	999.9	99.9	999.9	25.7	274.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 340
LITTLE ROCK, ARKANSAS

27 MAY 1977
1400 GMT

186 13. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	*.0	172.0	991.5	24.3	18.9	350.0	1.5	0.3	-1.5	295.2	335.2	14.1	72.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	8.5	319.5	975.0	24.4	17.0	8.7	1.4	-0.2	-1.4	299.7	333.3	12.6	63.8	0.0	169.
1.3	10.8	547.4	950.0	23.8	14.7	56.3	1.9	-1.6	-1.1	301.3	331.5	11.2	57.0	0.1	192.
2.2	13.1	779.9	925.0	21.7	13.4	73.5	2.1	-2.0	-0.6	301.5	330.1	10.6	59.8	0.2	229.
3.2	15.5	1017.2	900.0	19.7	11.5	64.7	2.4	-2.2	-1.0	301.4	327.8	9.6	59.3	0.3	235.
4.0	17.7	1259.2	875.0	17.4	10.1	74.5	1.9	-1.8	-0.5	301.9	326.3	8.9	62.0	0.4	238.
5.0	20.2	1506.3	850.0	15.5	9.0	66.8	1.5	-1.4	-0.6	302.4	325.8	8.5	65.2	0.5	242.
5.9	22.5	1759.1	825.0	13.7	8.6	2.8	2.4	-0.1	-2.4	303.1	322.6	7.0	58.4	0.6	238.
6.9	25.1	2017.9	800.0	12.1	1.1	320.9	3.2	1.7	-2.8	304.1	318.8	5.2	46.7	0.6	222.
7.7	27.4	2283.1	775.0	10.4	-0.9	319.9	3.2	2.1	-2.5	305.0	318.3	4.6	45.5	0.7	209.
8.5	30.0	2555.1	750.0	8.5	-1.3	308.3	4.4	3.5	-2.7	305.9	319.2	4.7	50.0	0.8	193.
9.7	32.7	2834.5	725.0	6.1	-2.2	312.2	4.1	3.0	-2.7	306.2	319.2	4.5	55.2	0.9	175.
10.9	35.3	3121.9	700.0	5.2	-0.2	328.1	2.3	1.2	-2.0	309.3	323.9	5.4	68.3	1.1	169.
12.0	37.9	3419.9	675.0	4.0	-2.7	10.1	1.4	-0.2	-1.3	311.1	324.8	4.7	55.0	1.2	169.
13.3	40.5	3726.4	650.0	4.0	-6.3	22.5	1.5	-0.6	-1.4	313.5	324.5	3.7	46.9	1.3	172.
14.5	43.3	4044.2	625.0	1.6	-7.4	335.3	1.7	0.7	-1.6	314.3	324.9	3.5	51.1	1.4	173.
15.6	46.2	4372.0	600.0	-0.6	-10.2	297.9	3.7	3.3	-1.7	315.4	324.4	2.9	48.0	1.5	169.
16.7	49.1	4711.0	575.0	-2.4	-17.2	285.8	5.8	5.6	-1.6	317.2	322.7	1.7	31.0	1.7	159.
17.9	52.0	5062.3	550.0	-4.6	-13.0	274.9	5.7	5.7	-0.6	318.6	326.7	2.6	51.7	2.0	147.
19.0	55.0	5426.9	525.0	-7.4	-17.6	274.0	5.7	5.7	-0.4	319.5	327.6	2.6	61.4	2.3	139.
20.2	58.0	5805.4	500.0	-10.5	-16.5	266.9	7.2	7.2	0.4	320.3	326.9	2.1	60.5	2.6	132.
21.6	61.3	6199.6	475.0	-13.4	-19.4	266.0	7.7	7.6	0.5	321.3	326.9	1.7	60.5	3.1	122.
23.1	64.6	6607.1	450.0	-17.2	-19.9	277.2	5.7	5.7	-0.3	321.6	327.3	1.7	79.2	3.6	117.
24.5	67.9	7033.0	425.0	-20.7	-21.2	270.0	4.8	4.8	0.0	322.4	327.8	1.6	95.9	4.0	115.
26.1	71.3	7479.4	400.0	-22.9	-24.1	254.5	5.1	5.9	1.6	325.2	329.1	1.1	75.5	4.4	112.
27.8	74.9	7949.9	375.0	-26.2	-30.5	235.7	6.3	5.2	3.5	326.9	329.7	0.9	66.8	4.9	105.
29.3	78.7	8445.1	350.0	-30.3	-35.1	235.3	3.8	3.1	2.2	327.8	329.8	0.5	62.7	5.2	101.
31.1	82.4	8967.7	325.0	-34.5	-39.3	290.7	1.3	1.1	-0.6	329.1	330.5	0.4	61.3	5.3	100.
32.2	86.3	9521.9	300.0	-38.7	-43.7	64.1	1.8	-1.7	-0.6	330.9	331.8	0.3	58.9	5.3	101.
35.4	90.7	10117.6	275.0	-43.5	99.9	123.7	1.9	-1.6	1.1	332.3	999.9	99.9	999.9	5.1	101.
37.8	95.3	10748.7	250.0	-47.9	99.9	152.7	3.1	-1.4	2.8	334.9	999.9	99.9	999.9	4.8	98.
40.3	99.9	11434.2	225.0	-54.1	99.9	167.8	4.4	-0.9	4.3	335.7	999.9	99.9	999.9	4.6	92.
43.1	105.0	12179.8	200.0	-59.3	99.9	177.3	4.2	-0.2	4.2	339.8	999.9	99.9	999.9	4.4	83.
45.8	110.6	13000.2	175.0	-63.5	99.9	278.8	7.6	7.5	-1.2	345.2	999.9	99.9	999.9	5.0	81.
48.3	116.5	13850.0	150.0	-64.4	99.9	306.3	8.0	6.5	-4.8	359.2	999.9	99.9	999.9	6.7	93.
51.5	123.1	15081.1	125.0	-60.1	99.9	291.4	3.8	3.5	-1.4	385.8	999.9	99.9	999.9	7.8	98.
56.6	130.8	16464.6	100.0	-62.1	99.9	241.0	1.7	1.5	0.8	407.8	999.9	99.9	999.9	8.2	98.
64.9	139.0	18232.0	75.0	-64.0	99.9	21.9	3.4	-1.3	-3.2	438.8	999.9	99.9	999.9	8.5	101.
73.4	149.0	20750.2	50.0	-59.5	99.9	85.6	5.4	-5.4	-0.4	503.3	999.9	99.9	999.9	6.6	109.
84.2	157.7	25109.3	25.0	-49.8	99.9	999.9	999.9	99.9	99.9	641.9	999.9	99.9	999.9	3.3	149.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 5 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 149
MONETT, MISSOURI

27 MAY 1977
1410 GMT

151 13. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	0.1	438.0	980.4	20.7	15.7	145.0	4.1	-2.4	3.4	297.3	330.5	12.6	78.0	0.0	0.
99.9	99.9	99.0	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	973.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	10.1	532.8	950.0	20.4	14.2	140.0	13.0	-8.4	12.2	297.9	326.7	10.9	67.8	0.3	327.
1.2	12.9	748.1	925.0	21.4	14.7	157.9	12.1	-4.5	11.1	301.2	332.2	11.5	65.8	0.4	335.
2.0	14.5	1001.4	900.0	20.1	12.9	157.1	10.7	-4.2	9.8	302.2	330.7	10.5	62.6	1.4	336.
2.9	16.7	1244.9	875.0	18.6	11.0	165.1	7.7	-2.0	7.5	303.2	329.9	9.5	61.2	1.8	336.
3.8	18.1	1432.9	850.0	17.6	9.7	182.1	7.2	0.3	7.2	304.5	329.3	9.0	60.0	2.2	340.
4.8	21.4	1767.5	825.0	15.8	8.0	197.7	6.9	2.1	6.6	305.4	328.2	8.2	59.8	2.6	344.
5.9	23.9	2009.5	800.0	14.3	6.2	218.2	6.0	3.6	7.1	305.4	327.4	7.5	58.3	2.6	350.
6.7	25.2	2274.1	775.0	12.2	4.1	230.7	11.3	8.4	7.2	305.9	325.8	6.7	58.0	3.2	359.
7.7	28.9	2580.6	750.0	10.3	2.8	230.9	12.8	10.0	8.2	307.9	325.6	6.2	56.5	3.7	8.
8.7	31.4	2831.8	725.0	7.9	2.1	230.7	12.9	9.9	8.1	308.2	325.8	6.2	66.5	4.3	15.
9.4	34.1	3120.3	700.0	5.0	0.8	229.9	12.6	9.5	8.3	309.1	324.8	5.8	74.1	4.6	20.
10.6	36.5	3414.7	675.0	2.7	0.5	226.6	12.0	8.7	8.2	309.7	326.2	6.1	87.8	5.6	23.
11.7	39.3	3721.4	650.0	0.2	-0.6	221.7	9.6	6.4	7.2	309.2	325.5	5.6	94.3	6.3	26.
12.9	41.9	4035.4	625.0	-1.6	-6.7	196.8	9.4	3.7	8.8	310.7	321.9	3.8	66.7	6.6	26.
14.3	44.7	4360.5	600.0	-1.7	-12.3	174.0	8.9	-0.5	8.9	314.7	322.4	2.5	42.8	7.5	25.
15.2	47.4	4678.7	575.0	-3.5	-11.2	170.7	9.4	-1.6	9.5	315.9	324.7	2.9	55.6	8.0	22.
16.5	50.4	5048.9	550.0	-4.7	-13.2	172.3	9.0	-1.2	8.9	317.4	325.2	2.5	55.0	8.6	20.
17.8	53.4	5417.0	525.0	-7.1	-17.2	178.5	10.4	-0.3	10.3	319.9	326.0	1.9	44.0	9.3	18.
19.1	56.3	5791.4	500.0	-9.8	-18.9	188.3	12.4	3.9	11.8	321.1	326.7	1.7	47.4	10.1	17.
20.5	59.5	6185.2	475.0	-13.0	-18.7	211.4	15.3	8.0	13.1	321.9	327.9	1.9	62.5	11.2	18.
21.9	62.9	6594.5	450.0	-16.4	-19.3	214.1	14.1	7.9	11.6	322.6	328.6	1.8	76.2	12.4	20.
23.7	66.0	7023.5	425.0	-18.9	-25.1	207.4	10.3	4.7	9.1	324.7	328.6	1.2	87.7	13.5	20.
24.9	69.4	7471.7	400.0	-22.4	-27.3	202.7	8.7	3.4	8.1	325.8	329.3	1.0	84.1	14.3	21.
24.6	72.0	7943.6	375.0	-25.6	-34.0	193.4	8.5	2.9	8.1	327.8	329.8	0.4	44.6	15.2	21.
24.3	74.6	8439.8	350.0	-29.3	-41.7	187.0	7.8	1.0	7.7	329.3	330.1	0.2	23.2	16.1	20.
30.9	80.4	8964.9	325.0	-33.8	-46.2	185.6	7.6	0.7	7.5	330.2	330.8	0.2	26.9	16.9	20.
32.1	84.3	9520.2	300.0	-38.1	-50.4	182.2	7.3	-0.2	7.0	331.7	332.1	0.1	26.1	17.6	19.
34.7	88.4	10112.9	275.0	-42.7	99.9	141.1	9.5	-5.3	6.6	333.7	999.9	99.9	999.9	18.3	18.
36.5	93.0	10746.2	250.0	-47.7	99.9	136.8	10.9	-7.4	7.9	335.9	999.9	99.9	999.9	18.9	13.
39.8	97.5	11437.9	225.0	-52.9	99.9	139.9	11.2	-7.2	8.6	337.4	999.9	99.9	999.9	20.0	9.
41.3	102.4	12199.4	200.0	-57.6	99.9	156.6	7.2	-3.0	6.5	341.6	999.9	99.9	999.9	20.8	8.
44.0	109.0	13024.3	175.0	-61.5	99.9	247.2	11.8	10.9	4.6	348.4	999.9	99.9	999.9	21.7	8.
47.1	116.0	13947.4	150.0	-59.8	99.9	273.1	6.3	6.3	-0.3	367.2	999.9	99.9	999.9	22.2	13.
50.9	120.5	15139.9	125.0	-59.8	99.9	267.8	4.3	4.3	0.2	386.7	999.9	99.9	999.9	22.3	15.
55.0	129.0	16500.9	100.0	-60.8	99.9	207.3	2.3	1.0	2.0	410.6	999.9	99.9	999.9	22.5	16.
60.2	136.7	19241.8	75.0	-62.6	99.9	39.6	1.7	-1.1	-1.3	441.7	999.9	99.9	999.9	22.5	16.
67.5	144.0	20937.6	50.0	-59.6	99.9	82.2	7.0	-7.0	-1.0	505.9	999.9	99.9	999.9	21.9	12.
70.7	154.7	25272.9	25.0	-50.2	99.9	999.9	999.9	99.9	99.9	640.7	999.9	99.9	999.9	21.5	358.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 353
OKLAHOMA CITY, OKLAHOMA

27 MAY 1977
1400 GMT

152 16. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.9	392.0	964.4	17.2	15.0	110.0	3.1	-2.9	1.1	293.4	322.6	11.2	87.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	10.8	521.6	950.0	19.4	99.9	134.2	8.6	-6.1	6.0	296.9	999.9	99.9	999.9	0.4	316.
1.4	17.0	749.7	925.0	17.2	9.1	135.5	9.8	-6.8	7.0	298.9	318.1	7.9	59.2	1.0	316.
2.4	15.1	975.1	900.0	18.4	9.5	139.5	7.4	-3.3	6.7	300.5	323.3	8.4	56.1	1.5	316.
3.4	17.6	1225.3	875.0	17.6	8.0	201.2	5.2	1.9	4.8	302.1	323.4	7.7	53.1	1.8	323.
4.4	19.9	1473.4	850.0	15.3	5.4	219.5	3.0	1.9	2.3	302.1	320.6	6.6	51.7	1.9	331.
5.5	22.1	1724.1	825.0	14.0	4.5	236.6	1.9	1.6	1.0	303.4	321.5	6.4	52.7	1.9	334.
6.6	24.7	1994.9	800.0	11.6	3.6	249.1	4.0	3.7	1.5	303.6	321.0	6.2	57.8	1.9	339.
7.3	27.0	2250.0	775.0	10.3	3.8	256.4	6.6	6.4	1.6	304.9	323.2	6.5	64.1	1.9	347.
9.2	29.5	2522.2	750.0	7.8	3.8	261.7	9.3	9.2	1.3	305.1	324.1	6.7	75.6	1.9	359.
9.1	32.2	2801.6	725.0	6.5	2.7	261.3	12.4	12.2	1.9	306.6	324.8	6.5	76.9	2.1	15.
9.9	34.9	3089.5	700.0	5.5	0.2	262.8	15.4	15.3	1.9	308.6	324.6	5.8	66.5	2.4	25.
10.9	37.4	3386.4	675.0	3.5	-2.9	265.4	17.8	17.7	1.4	309.6	323.1	4.6	62.9	3.0	43.
11.7	40.2	3691.6	650.0	0.7	-5.9	267.0	19.1	19.0	1.0	309.8	321.0	3.8	61.2	3.5	54.
12.9	42.8	4005.4	625.0	-1.7	-8.1	268.2	20.2	20.2	0.6	310.5	320.5	3.3	62.0	5.1	63.
13.9	45.8	4328.8	600.0	-4.8	-10.8	269.1	22.9	22.8	0.4	310.6	319.0	2.8	62.7	6.3	68.
15.0	48.9	4662.0	575.0	-7.9	-11.7	273.1	25.4	25.4	-1.4	310.7	319.0	2.7	74.1	7.8	72.
16.4	51.6	5006.2	550.0	-9.7	-12.9	279.4	24.7	24.5	-3.6	312.6	320.6	2.6	77.2	9.7	77.
17.9	54.6	5365.6	525.0	-10.2	-13.1	270.5	23.5	23.5	-0.2	316.1	324.4	2.7	79.8	11.7	81.
19.9	57.5	5740.9	500.0	-12.0	-14.9	257.9	20.1	19.6	4.2	318.4	326.0	2.4	79.3	13.2	81.
20.2	61.0	6131.6	475.0	-14.5	-17.7	251.2	18.3	17.4	5.9	320.1	326.5	2.0	76.2	14.6	80.
21.5	64.4	6539.5	450.0	-17.5	-20.6	244.4	15.3	13.9	6.6	321.3	326.6	1.6	76.2	15.6	80.
22.6	67.6	6964.0	425.0	-19.9	-23.6	226.4	13.4	9.7	9.2	323.6	328.0	1.3	72.0	16.7	78.
23.9	71.0	7417.1	400.0	-23.1	-27.3	201.1	12.5	4.5	11.7	324.9	328.4	1.0	68.6	17.4	76.
25.0	74.5	7892.9	375.0	-26.3	-30.3	199.1	13.6	4.4	12.8	326.8	329.6	0.8	68.8	17.9	74.
25.2	78.7	8378.8	350.0	-30.1	-34.4	202.4	14.8	5.6	13.7	328.2	330.3	0.6	65.2	18.5	71.
27.6	82.5	8909.0	325.0	-34.3	-42.5	195.7	14.5	4.5	15.9	329.4	330.5	0.3	42.7	19.4	68.
29.2	86.6	9456.5	300.0	-38.9	-50.0	185.6	18.9	1.9	18.8	330.5	331.0	0.1	29.6	20.4	64.
30.9	91.2	10047.8	275.0	-43.6	99.9	176.1	15.8	-1.1	15.8	332.1	999.9	99.9	999.9	21.2	59.
32.8	95.9	10681.4	250.0	-49.2	99.9	171.3	15.2	-2.3	15.0	332.9	999.9	99.9	999.9	21.9	56.
34.7	100.7	11367.5	225.0	-52.5	99.9	172.0	19.5	-2.7	19.3	338.1	999.9	99.9	999.9	22.8	51.
35.4	106.0	12119.1	200.0	-57.8	99.9	196.9	16.7	4.9	15.9	341.2	999.9	99.9	999.9	24.1	47.
38.9	111.6	12953.3	175.0	-60.9	99.9	257.5	12.4	12.1	2.7	349.4	999.9	99.9	999.9	26.8	48.
41.3	117.5	13812.8	150.0	-59.1	99.9	280.4	7.8	7.6	-1.4	368.4	999.9	99.9	999.9	28.8	58.
44.5	125.0	15049.7	125.0	-60.9	99.9	257.5	9.3	9.1	2.0	384.6	999.9	99.9	999.9	28.2	81.
49.1	132.3	16429.3	100.0	-61.1	99.9	272.2	4.7	4.7	-0.2	409.8	999.9	99.9	999.9	29.4	93.
52.7	140.3	18207.5	75.0	-64.5	99.9	351.4	4.0	0.6	-3.9	437.8	999.9	99.9	999.9	29.9	95.
60.1	148.7	20712.8	50.0	-58.6	99.9	75.6	6.6	-6.4	-1.6	505.6	999.9	99.9	999.9	27.3	54.
71.0	157.8	25179.6	25.0	-51.3	99.9	66.8	8.6	-7.9	-3.4	637.3	999.9	99.9	999.9	23.8	46.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 8 AND 10 DEG
+ BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 8 DEG

STATION NO. 363
AMARILLO, TEXAS

27 MAY 1977
1400 GMT

143 16. 0

TIME MIN.	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	17.5	1076.0	885.4	19.7	14.1	240.0	4.1	3.5	3.1	301.9	337.0	13.2	87.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	900.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.4	18.8	1139.4	875.9	16.5	15.0	139.5	7.1	-5.2	4.9	301.0	334.2	12.4	90.9	0.2	41.
1.4	20.9	1167.1	850.0	15.6	1.7	245.7	9.4	8.5	3.9	302.5	317.6	5.4	41.2	0.7	49.
2.7	23.2	1196.7	825.0	18.5	-9.7	256.1	7.4	7.4	0.8	308.2	314.9	2.2	13.7	1.2	62.
3.7	25.5	1959.5	800.0	16.8	-10.9	266.7	5.7	5.7	0.3	309.1	315.4	2.1	13.8	1.6	67.
4.6	24.0	1229.2	775.0	14.3	-10.1	262.1	4.6	4.6	0.6	309.2	316.2	2.3	17.4	1.9	70.
5.4	30.4	1259.7	750.0	12.0	-9.3	256.6	4.1	3.9	1.1	309.7	317.3	2.5	21.6	2.1	71.
6.5	33.3	1294.2	725.0	9.9	-10.7	251.7	8.0	7.5	2.8	310.3	317.5	2.4	22.3	2.4	71.
7.6	35.9	1326.6	700.0	9.0	-14.0	249.4	11.4	10.6	4.1	311.3	317.1	1.9	19.3	3.0	71.
8.4	38.4	1359.9	675.0	5.1	-14.6	246.4	12.3	11.3	4.9	311.4	317.1	1.8	22.4	3.7	70.
9.6	41.0	1391.2	650.0	2.6	-18.1	245.0	13.2	12.0	5.6	312.0	316.4	1.4	19.8	4.5	69.
10.7	43.9	1426.7	625.0	-0.0	-23.0	244.3	14.1	13.1	5.2	312.5	315.6	1.0	15.6	5.4	69.
11.9	46.8	1461.4	600.0	-2.8	-28.3	244.4	13.1	12.0	5.3	312.9	315.0	0.8	11.9	6.3	69.
13.0	49.8	1497.4	575.0	-4.8	-42.6	245.3	14.3	13.0	6.0	314.4	315.0	0.2	3.3	7.2	68.
14.3	52.6	1532.7	550.0	-6.8	-54.1	242.7	16.5	14.7	7.6	316.3	316.5	0.0	1.6	8.2	68.
15.7	55.4	1567.4	525.0	-8.9	-55.7	244.0	16.2	14.8	6.6	317.4	317.5	0.0	1.0	9.8	67.
17.1	58.2	1602.7	500.0	-11.7	-57.3	241.1	17.2	15.0	8.7	318.8	318.9	0.0	1.0	11.2	68.
18.5	62.0	1637.4	475.0	-14.8	-59.2	239.0	20.4	20.3	-1.8	319.7	319.8	0.0	1.0	12.7	70.
20.0	65.3	1681.1	450.0	-16.8	-60.6	238.0	24.9	24.7	-1.9	322.1	322.2	0.0	1.0	14.6	74.
21.7	68.7	1724.0	425.0	-19.8	-61.3	238.3	27.8	27.5	-1.6	323.6	323.9	0.1	4.1	17.3	77.
23.3	72.1	1765.1	400.0	-23.2	-64.7	238.6	26.0	26.0	-1.6	324.9	324.9	0.0	1.0	19.9	79.
25.2	76.0	1809.7	375.0	-27.3	-62.5	282.9	23.3	22.7	-5.2	325.5	325.6	0.0	2.0	22.4	81.
24.9	79.9	1876.4	350.0	-31.2	-60.7	289.7	27.2	25.7	-9.2	326.4	326.8	0.0	3.6	24.8	84.
29.5	83.7	1897.2	325.0	-35.2	-63.9	293.4	31.5	28.9	-12.5	329.1	328.2	0.0	3.8	27.9	87.
30.9	87.9	1960.8	300.0	-39.9	99.9	296.1	34.3	30.8	-15.1	329.2	999.9	99.9	999.9	31.4	91.
32.0	92.1	10010.2	275.0	-43.8	99.9	299.6	40.4	35.1	-18.1	331.4	999.9	99.9	999.9	35.8	94.
35.8	96.3	10079.3	250.0	-48.7	99.9	302.5	39.2	34.8	-14.1	333.7	999.9	99.9	999.9	41.1	97.
37.6	101.6	10159.8	225.0	-53.1	99.9	295.0	33.0	29.9	-11.9	337.2	999.9	99.9	999.9	45.9	99.
40.2	107.0	10119.8	200.0	-56.3	99.9	292.1	27.3	26.7	-5.8	343.6	999.9	99.9	999.9	49.9	100.
43.3	112.6	10960.5	175.0	-55.7	99.9	242.9	24.3	25.6	-5.9	358.1	999.9	99.9	999.9	55.1	100.
46.4	118.8	10333.5	150.0	-60.8	99.9	286.4	24.9	24.1	-6.2	369.1	999.9	99.9	999.9	60.4	100.
50.4	125.6	10044.8	125.0	-60.5	99.9	290.5	16.5	16.3	-3.1	345.5	999.9	99.9	999.9	65.2	101.
55.0	133.0	10484.8	100.0	-65.8	99.9	249.0	9.2	8.4	3.7	401.0	999.9	99.9	999.9	67.8	100.
60.5	140.0	10219.4	75.0	-64.2	99.9	281.7	5.8	5.7	-1.1	418.2	999.9	99.9	999.9	70.0	100.
64.7	147.4	10747.0	50.0	-58.5	99.9	97.5	7.2	-7.1	0.9	505.7	999.9	99.9	999.9	67.9	100.
68.4	154.9	25175.1	24.0	-50.5	99.9	999.9	999.9	99.9	99.9	639.6	999.9	99.9	999.9	62.9	102.

* RY SPEED MEANS ELEVATION ANGLE BETWEEN 5 AND 10 DEG
+ RY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** RY SPEED MEANS ELEVATION ANGLE LESS THAN 5 DEG

STATION NO. 413
SALEM, ILLINOIS

EF MAY 1977
1415 GMT

161 11. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.9	175.0	991.9	21.9	12.3	7.3	[illegible]	-3.5	-1.3	297.2	321.5	9.1	50.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	[illegible]	[illegible]	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	9.5	323.4	975.0	21.3	[illegible].0	190[illegible]	.4	-3.3	1.0	297.2	314.8	6.5	38.2	0.2	280.
1.3	11.5	544.6	950.0	21.6	[illegible].0	[illegible]	.9	-2.8	1.2	299.1	313.1	5.0	26.3	0.3	283.
2.2	13.6	770.6	925.0	19.4	[illegible]	[illegible]	3.0	-2.2	2.0	299.5	312.7	4.7	30.2	0.4	291.
3.1	15.2	1017.7	900.0	15.9	[illegible]	139.9	4.2	-3.0	3.0	300.0	310.3	3.6	24.9	0.5	298.
4.1	19.4	1253.5	875.0	15.8	[illegible]	[illegible]	5.9	-3.7	4.6	300.3	310.3	3.5	27.2	0.8	304.
5.1	20.9	1498.5	850.0	[illegible]	[illegible]	[illegible]	5.6	-2.7	4.9	300.6	306.9	2.1	18.2	1.3	310.
6.1	23.5	1760.4	825.0	14.2	-36.9	142.9	5.9	-1.7	5.6	303.6	304.2	0.2	1.6	1.5	316.
7.0	25.8	2009.3	800.0	12.8	-38.4	141.1	6.5	-3.5	5.5	304.8	305.3	0.2	1.5	1.9	320.
8.0	28.3	2271.4	775.0	11.1	-38.3	139.9	6.7	-5.2	4.2	305.8	306.4	0.2	1.7	2.3	319.
9.0	31.0	2545.3	750.0	9.5	-38.2	124.8	9.2	[illegible]	4.7	306.9	307.5	0.2	1.9	2.7	317.
10.1	33.9	2825.5	725.0	8.3	-38.2	116.4	[illegible].5	-8.5	4.2	308.6	309.3	0.2	2.0	3.2	314.
11.1	36.2	3114.1	700.0	6.8	-45.8	112.9	8.8	-8.1	3.4	310.0	310.3	0.1	1.0	3.8	311.
12.4	39.1	3411.6	675.0	4.9	-46.9	117.1	8.1	-7.2	3.7	311.2	311.5	0.1	1.0	4.4	309.
13.5	41.8	3718.3	650.0	3.4	-47.5	129.9	8.0	-6.1	5.1	312.9	313.1	0.1	1.0	5.0	308.
14.8	44.6	4035.3	625.0	1.9	-48.8	137.5	7.6	-5.1	5.6	314.6	314.9	0.1	1.0	5.8	309.
16.0	47.6	4364.5	600.0	0.3	-29.7	135.4	7.9	-5.5	5.6	316.4	316.3	0.5	8.3	6.1	310.
17.4	50.5	4702.8	575.0	-2.5	-30.9	138.4	7.8	-5.5	5.7	317.1	318.8	0.5	9.0	6.7	310.
18.6	53.6	5053.7	550.0	-4.8	-41.3	141.6	5.9	-4.4	3.9	318.4	319.1	0.2	3.7	7.2	310.
20.0	56.6	5417.5	525.0	-7.6	-42.5	131.6	4.6	-3.5	3.1	319.2	319.9	0.2	4.1	7.6	310.
21.5	60.0	5794.7	500.0	-10.4	-40.8	145.2	4.4	-2.5	[illegible].5	320.3	321.1	0.2	6.2	8.C	310.
22.9	63.4	6187.4	475.0	-13.4	-41.0	156.9	7.1	-2.9	6.7	321.4	322.2	0.2	7.6	8.4	312.
24.4	66.7	6596.4	450.0	-15.3	-47.7	152.6	7.7	-3.6	[illegible].3	322.8	323.2	0.1	4.7	9.1	313.
26.1	70.3	7023.8	425.0	-19.3	-48.2	156.4	8.1	-3.5	7.3	324.3	324.7	0.1	5.6	9.8	315.
27.7	74.0	7471.4	400.0	-22.4	-25.8	162.1	8.7	-2.7	8.3	325.9	329.8	1.2	73.9	10.6	317.
29.4	77.9	7942.2	375.0	-26.4	-33.5	167.9	8.2	-1.3	6.1	325.7	328.8	0.6	51.1	11.3	319.
31.4	81.9	8437.9	350.0	-29.7	-46.3	160.4	5.1	-1.7	4.8	328.8	329.4	0.2	17.8	11.8	320.
33.2	85.9	8951.3	325.0	-34.2	-50.2	169.1	6.8	-1.3	6.7	329.6	330.0	0.1	17.9	12.4	321.
35.2	90.3	9514.2	300.0	-38.9	99.9	175.9	7.6	-0.5	7.6	330.5	999.9	99.9	999.9	13.2	323.
37.1	95.0	10105.9	275.0	-44.7	99.9	174.2	7.7	-0.8	7.6	330.5	999.9	99.9	999.9	14.0	325.
39.4	99.8	10737.3	250.0	-49.5	99.9	161.0	6.5	-2.1	6.2	332.5	999.9	99.9	999.9	14.8	327.
41.8	104.8	11419.8	225.0	-54.3	99.9	168.3	3.1	-0.6	3.0	335.3	999.9	99.9	999.9	15.5	327.
44.3	110.4	12165.5	200.0	-59.6	99.9	132.8	1.9	-1.4	1.3	338.3	999.9	99.9	999.9	15.9	328.
47.2	116.7	13003.7	175.0	-63.0	99.9	76.5	2.6	-2.5	-0.6	346.0	999.9	99.9	999.9	16.0	327.
50.5	123.0	13984.7	150.0	-61.3	99.9	83.2	1.7	-1.7	-0.2	364.5	999.9	99.9	999.9	16.1	325.
54.1	130.3	15091.1	125.0	-61.3	99.9	229.6	1.4	1.1	0.9	384.1	999.9	99.9	999.9	16.0	325.
59.5	137.7	16460.9	100.0	-62.1	99.9	14.0	3.2	-0.9	-3.1	407.8	999.9	99.9	999.9	16.0	328.
64.3	145.3	18240.8	75.0	-60.5	99.9	61.5	4.0	-3.5	-1.9	446.1	999.9	99.9	999.9	16.0	328.
72.1	153.7	20791.6	50.0	-57.3	99.9	73.0	7.3	-7.0	-2.1	508.5	999.9	99.9	999.9	17.0	314.
84.6	162.3	25254.6	25.0	-50.2	99.9	999.9	999.9	99.9	99.9	640.8	999.9	99.9	999.9	22.2	301.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 451
DODGE CITY, KANSAS

27 MAY 1977
1415 GMT

155 S. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	13.8	791.0	913.0	16.7	13.4	170.0	5.7	-1.0	5.6	297.0	325.2	10.6	81.0	0.0	0.
99.9	99.9	99.9	1003.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
1.6	15.5	943.1	900.0	15.0	13.5	140.4	8.8	2.9	8.3	297.0	326.7	11.2	83.2	0.2	9.
1.5	17.7	1196.5	875.0	13.1	12.0	270.7	7.9	4.8	6.3	297.4	324.5	10.2	83.6	0.9	20.
2.4	20.1	1449.1	850.0	11.7	10.4	239.9	5.3	4.6	2.7	298.4	323.6	9.4	91.8	1.2	29.
3.5	22.4	1703.4	825.0	14.8	1.8	252.6	6.6	6.3	2.0	304.2	319.9	5.6	44.5	1.2	36.
4.6	24.9	1954.3	800.0	15.7	-8.9	249.4	10.8	10.1	3.9	307.8	315.2	2.4	17.5	1.9	44.
5.8	27.2	2203.8	775.0	14.4	-11.4	256.4	12.5	12.1	3.4	309.3	315.4	2.0	15.1	2.4	52.
6.7	29.6	2451.1	750.0	11.9	-10.5	250.3	13.0	12.3	4.2	309.5	316.5	2.3	19.8	3.1	57.
7.4	32.4	2700.7	725.0	9.2	-11.4	246.9	13.0	11.9	5.1	309.5	316.3	2.2	21.9	4.0	60.
8.5	35.1	2949.5	700.0	6.3	-12.6	245.1	12.8	11.7	5.2	309.5	315.8	2.0	23.8	4.8	61.
9.7	37.7	3196.9	675.0	3.5	-14..	245.5	14.6	13.3	6.0	309.6	315.2	1.8	25.1	5.9	62.
10.8	40.8	3439.6	650.0	0.7	-15..	244.7	15.9	15.2	7.2	309.8	315.4	1.8	29.3	6.8	62.
12.0	43.0	3684.2	625.0	-2.0	-15.7	241.4	17..	15.1	8.2	310.2	315.8	1.8	34.1	8.1	62.
13.2	46.0	4927.9	600.0	-3.2	-25..	237.5	15..	13.0	8.3	312.4	313.5	0.3	6.3	9.3	62.
14.4	48.9	4169.2	575.0	-5.7	-30..	239.3	14.6	12.0	7.1	313.3	314.6	0.4	8.2	10.2	61.
15.6	51.8	4410.7	550.0	-8.7	-24..	240.0	14.0	12.9	5.5	313.8	315.0	0.4	9.9	11.3	62.
16.9	54.9	4652.0	525.0	-11.9	-36..	244.7	12.8	12.0	4.4	314.1	315.2	0.3	10.7	12.3	62.
18.2	57.9	4891.7	500.0	-14.6	-40.7	247.1	13.5	12.0	6.1	315.3	316.0	0.2	8.7	13.4	63.
19.4	61.1	5106.9	475.0	-16.7	-44.	249.4	12.3	11.5	4.3	317.3	317.9	0.2	7.1	14.5	63.
21.1	64.6	5371.4	450.0	-19..	-45..	250.9	14.0	13.9	2.2	319.6	320.1	0.1	6.8	15.6	64.
22.9	67.7	5634.0	425.0	-21.5	-49.7	256.6	15.8	15.3	3.7	321.4	321.7	0.1	5.8	17.0	65.
24.6	71.1	5894.2	400.0	-25.4	-51..	258.0	16.7	15.0	4..	322.0	322.3	0.1	7.0	18.6	66.
26.1	74.9	6153.0	375.0	-28.7	-53..	251.6	15.0	14.3	4.7	322.3	322.6	0.1	7.9	20.1	66.
27.3	78.7	6410.4	350.0	-33.6	-51..	241.3	10.6	9.3	5.1	323.5	323.7	0.1	5.4	21.5	67.
28.7	82.5	6667.3	325.0	-37.0	-58.3	226.2	13.0	9.4	9.0	325.7	325.9	0.0	2.8	22.5	66.
30.1	.....	6922..	300.0	-40.4	99.9	211.9	15.4	8.2	13.1	328.4	999.9	99.9	999.9	24.2	64.
31.	91.3	7177.1	275.0	-42.1	99.9	199.1	19.8	7.9	18.4	332.9	999.9	99.9	999.9	25.8	61.
32.0	95.4	7429.0	250.0	-43.1	99.9	190.5	26.0	8.3	26.0	336.5	999.9	99.9	999.9	27.3	56.
33.1	100.3	7680.0	225.0	-52.1	99.9	192.7	23.5	5.2	23.0	338.6	999.9	99.9	999.9	29.7	50.
33.4	105.3	7930.1	200.0	-59.7	99.9	219.6	19.2	12.2	14.8	340.0	999.9	99.9	999.9	32.7	46.
33.	110.9	8179.0	175.0	-55.5	99.9	243.1	15.0	13.4	6.8	338.4	999.9	99.9	999.9	35.4	48.
34.	117.3	8427.4	150.0	-56.4	99.9	237.9	13.1	9.6	5.4	342.9	999.9	99.9	999.9	37.6	49.
30.	124.7	8675.0	125.0	-59.7	99.9	245.8	12.7	11.5	5.2	346.9	999.9	99.9	999.9	39.8	50.
35.	132..	8922.2	100.0	-60.4	99.9	244.6	7.8	6.7	3.2	411.1	999.9	99.9	999.9	42.8	51.
36.	85	9169.8	75.0	-68.1	99.9	240.3	2.4	2.1	1.2	438.6	999.9	99.9	999.9	43.7	52.
38.2	153.5	9399.0	53.0	-57.	99.9	96.7	7.3	-6.8	-1.6	507.4	999.9	99.9	999.9	42.2	51.
39.8	11.	9600.0	35.0	-51..	99.9	95.6	7.7	-7.6	0.8	635.9	999.9	99.9	999.9	38.1	46.

* ... SPEED MEANS ELEVATION ANGLE ... TWEEN 6 AND 10 DEG
... BY TIME WITH TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 456
TOPEKA, KANSAS

27 MAY 1977
1402 GMT

63 407. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.6	268.0	978.0	22.2	17.8	150.0	5.1	-2.6	4.4	297.2	332.0	13.2	76.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	7.9	294.8	975.0	22.9	17.8	166.5	4.9	-1.2	4.8	298.2	333.2	13.3	72.8	0.3	231.
1.1	10.2	531.0	950.0	20.7	16.4	140.2	5.4	-3.5	4.2	298.2	331.3	12.5	76.7	0.3	169.
1.9	12.3	751.3	925.0	18.9	15.5	153.[illegible]	10.7	-4.7	9.6	299.7	330.7	12.1	80.4	0.5	261.
2.7	14.5	967.2	900.0	18.1	15.7	198.9	15.6	5.0	14.7	300.2	333.8	12.6	86.0	0.7	320.
3.5	16.8	1228.7	875.0	16.0	13.1	171.7	8.2	-1.2	.1	300.4	329.7	10.9	83.2	1.4	355.
4.4	19.1	1478.4	850.0	13.9	12.4	149.7	9.6	-4.3	7.4	300.7	329.6	10.7	90.6	1.6	350.
5.4	21.4	1725.9	825.0	12.2	10.9	157.9	11.0	-4.1	10.2	301.5	328.7	10.0	91.8	2.2	348.
6.4	23.9	1983.8	800.0	10.3	7.6	152.0	10.5	-4.7	9.2	302.1	324.7	8.2	83.1	2.9	345.
7.4	26.2	2238.0	775.0	8.9	5.8	152.4	10.7	-5.0	9.5	303.4	324.3	7.5	80.7	3.4	342.
8.4	28.7	2510.1	750.0	7.2	4.7	156.4	11.4	-4.7	10.4	304.4	324.4	7.2	84.2	4.1	341.
9.5	31.3	2787.5	725.0	5.4	-1.5	160.1	12.9	-4.4	12.1	305.4	319.0	4.7	61.0	4.6	340.
10.7	34.0	3083.4	700.0	2.8	1.2	164.5	13.6	-3.6	13.1	305.6	322.6	6.0	89.2	5.8	341.
11.7	36.4	3377.4	675.0	0.6	-0.7	171.0	14.0	-2.2	13.9	306.4	321.8	5.4	90.8	6.7	342.
12.9	39.2	3679.6	650.0	-1.5	-3.2	172.2	16.1	-2.2	16.0	307.3	320.7	4.7	88.1	7.7	343.
14.0	41.8	3991.8	625.0	-2.5	-5.2	167.2	16.6	-3.7	16.2	309.6	321.8	4.2	81.8	8.7	344.
15.1	44.7	4316.2	600.0	-2.5	-19.7	158.9	18.1	-6.7	16.8	313.3	317.7	1.4	26.0	9.9	344.
16.3	47.6	4651.9	575.0	-5.2	-12.0	154.1	18.3	-8.0	16.4	313.9	322.1	2.7	58.7	11.3	343.
17.5	50.5	5000.2	550.0	-7.2	-10.6	157.9	19.1	-7.2	17.7	315.6	325.1	3.1	76.5	12.5	342.
18.7	53.5	5359.0	525.0	-9.1	-10.6	168.7	19.1	-3.8	18.7	317.5	327.5	3.2	88.2	13.9	342.
20.0	56.5	5729.4	500.0	-11.6	-12.7	174.9	19.0	-1.7	19.0	319.0	328.0	2.9	91.5	15.4	343.
21.4	59.8	6120.4	475.0	-13.5	-15.6	177.4	18.9	-0.9	18.9	321.2	328.8	2.4	89.4	17.0	344.
22.9	63.1	6530.1	450.0	-16.0	-19.8	183.1	17.9	1.0	17.9	323.2	328.9	1.8	72.3	18.5	346.
24.4	66.4	6958.8	425.0	-18.7	-22.9	999.9	999.9	99.9	99.9	325.0	329.7	1.4	69.2	999.9	999.
99.9	99.9	99.9	400.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	375.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	350.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	325.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	300.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	275.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	250.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	225.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	200.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	175.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	150.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	125.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	100.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	75.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	50.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 1 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 532
PEORIA, ILLINOIS

27 MAY 1977
1424 GMT

153 14. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.0	200.0	990.0	21.4	12.1	100.0	4.6	-4.5	0.8	297.4	321.5	9.0	46.0	0.0	0.
99.9	33.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	9.7	133.0	975.0	21.4	12.8	138.6	4.2	-2.9	3.1	296.7	321.9	9.5	57.3	0.1	274.
1.2	10.4	587.7	950.0	20.6	7.9	140.9	6.2	-2.1	5.9	298.1	317.4	7.1	44.9	0.3	308.
2.2	12.5	788.1	925.0	20.2	6.4	142.5	6.6	-2.0	6.3	299.9	317.9	6.5	40.6	0.7	331.
3.1	14.8	1013.8	900.0	19.4	6.5	147.0	5.3	-2.9	4.4	300.5	319.1	6.8	45.7	1.0	333.
4.1	14.9	1244.4	875.0	18.4	6.7	132.4	4.6	-3.4	3.1	300.9	320.3	7.1	52.5	1.3	330.
5.1	19.3	1510.5	850.0	14.0	4.9	123.3	5.4	-4.5	3.0	300.8	319.8	6.9	58.2	1.5	326.
6.0	21.5	1741.8	825.0	12.0	3.2	107.7	6.9	-6.6	2.1	301.3	317.7	6.9	64.6	1.8	321.
7.0	24.0	2013.1	800.0	12.6	-13.3	102.1	8.9	-8.8	1.9	304.6	309.8	1.7	18.0	2.3	314.
8.1	26.2	2294.0	775.0	11.4	-7.6	100.1	10.7	-10.6	1.9	306.1	317.2	3.8	34.7	2.9	307.
9.2	28.9	2557.9	750.0	10.0	-5.0	96.0	10.0	-9.9	1.0	307.4	317.8	3.5	34.4	3.4	301.
10.2	31.4	2838.7	725.0	8.1	-7.3	97.9	9.2	-9.1	1.3	308.1	317.4	3.1	32.8	4.0	297.
11.4	34.0	3127.1	700.0	6.2	-9.0	106.1	9.6	-9.2	2.7	309.4	317.	2.8	32.6	4.6	295.
12.5	36.5	3423.9	675.0	3.9	-10.0	113.7	7.9	-7.3	3.2	309.9	317.9	2.4	35.6	5.2	294.
13.8	39.3	3729.5	650.0	2.1	-14.4	127.4	5.5	-4.4	3.3	311.3	317.3	1.9	28.2	5.7	295.
15.0	41.9	4045.7	625.0	0.7	-19.5	141.9	4.2	-2.6	3.3	313.3	317.5	1.3	20.2	6.0	296.
16.2	44.8	4371.5	600.0	-1.7	-21.4	152.2	4.0	-1.8	3.5	314.1	317.9	1.1	20.5	6.2	297.
17.5	47.8	4709.5	575.0	-3.9	-24.7	159.3	6.0	-2.1	5.6	315.5	318.4	0.9	18.0	6.5	299.
18.9	50.7	5058.1	550.0	-5.5	-30.1	161.6	7.2	-2.3	6.8	317.5	319.5	0.6	12.3	7.0	302.
20.2	53.9	5421.3	525.0	-7.8	-30.8	163.1	9.2	-2.4	7.8	319.1	321.0	0.6	13.7	7.5	305.
21.5	56.8	5798.4	500.0	-10.6	-32.7	165.2	9.6	-2.2	8.4	320.1	321.8	0.5	14.2	8.0	308.
23.1	60.1	6190.9	475.0	-13.6	-34.7	178.9	8.2	-0.2	8.2	321.2	322.6	0.4	14.8	8.5	312.
24.7	63.6	6600.1	450.0	-16.8	-26.8	181.0	10.1	0.2	10.1	322.1	325.3	0.9	41.8	9.1	316.
24.7	64.9	7027.1	425.0	-19.9	-28.4	183.9	10.8	0.7	10.8	323.4	326.4	0.9	46.7	9.9	320.
28.0	70.4	7474.0	400.0	-23.6	-36.2	180.4	10.5	0.1	10.5	324.3	325.8	0.4	30.1	10.7	324.
29.8	74.1	7943.5	375.0	-27.2	-38.6	179.3	9.3	-0.1	9.3	325.6	326.9	0.4	32.8	11.6	327.
31.8	78.1	8436.4	350.0	-31.0	-41.9	169.4	5.7	-1.0	5.6	327.0	328.0	0.3	33.0	12.4	329.
33.7	82.0	8958.2	325.0	-35.0	-44.7	150.1	3.4	-1.7	2.9	328.5	329.3	0.2	35.9	12.9	330.
35.4	86.2	9511.1	300.0	-39.5	99.9	118.5	5.1	-4.5	2.4	329.7	999.9	99.9	999.9	13.3	329.
37.9	90.7	10100.2	275.0	-44.1	99.9	127.4	5.8	-4.8	3.2	331.4	999.9	99.9	999.9	14.0	328.
40.3	95.3	10727.6	250.0	-49.4	99.9	129.4	4.3	-3.3	2.7	332.7	999.9	99.9	999.9	14.7	326.
42.9	100.3	11415.6	225.0	-54.3	99.9	39.0	3.7	-3.2	-1.9	335.*	999.9	99.9	999.9	15.0	326.
45.7	105.6	12162.2	200.0	-59.5	99.9	22.2	10.5	-4.0	-9.7	338.	999.9	99.9	999.9	14.3	322.
48.7	111.3	12947.0	175.0	-64.1*	99.9	44.0	7.9	-5.5	-5.7	344.1	999.9	99.9	999.9	13.5	316.
52.0	117.3	13776.6	150.0	-62.1	99.9	112.9	2.1	-2.0	0.8	363.1	999.9	99.9	999.9	13.8	311.
56.1	124.5	15069.1	125.0	-62.1	99.9	283.9	1.4	1.4	-0.3	392.5	999.9	99.9	999.9	14.1	312.
61.0	132.0	16449.5	100.0	-61.9	99.9	135.5	3.3	-2.3	2.4	408.1	999.9	99.9	999.9	14.2	310.
67.4	139.7	19237.6	75.0	-60.3	99.9	54.9	2.5	-2.3	-1.6	448.6	999.9	99.9	999.9	14.7	308.
75.3	147.3	20770.9	50.0	-57.2	99.9	77.1	8.4	-8.2	-1.9	508.9	999.9	99.9	999.9	16.3	300.
87.6	155.3	25247.1	25.0	-49.9	99.9	90.3	11.4	-11.4	0.1	641.5	999.9	99.9	999.9	22.5	288.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 553
OMAHA, NEBRASKA

27 MAY 1977
1415 GMT

154 11. 0

TIME MIN.	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.9	400.0	967.4	20.6	15.2	145.0	3.6	0.9	-3.5	296.9	326.9	11.3	71.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.5	10.1	520.9	950.0	18.3	15.2	304.6	4.0	3.3	-2.3	295.8	326.1	11.6	82.2	0.1	128.
1.6	12.2	749.3	925.0	16.3	14.6	267.4	3.1	3.1	0.1	296.0	325.9	11.4	89.5	0.3	123.
2.4	14.4	993.7	900.0	16.3	13.8	202.4	6.6	2.5	6.1	298.3	327.9	11.1	85.3	0.4	99.
3.2	17.1	1229.5	875.0	15.6	12.8	175.3	11.9	-1.0	11.8	300.0	328.8	10.7	83.2	0.6	50.
4.1	19.0	1469.4	850.0	14.3	10.1	173.3	14.5	-1.7	14.4	301.1	326.1	9.2	76.0	1.2	16.
5.1	21.2	1721.4	825.0	12.4	8.0	170.2	14.2	-2.4	14.0	301.7	324.2	8	74.6	2.0	7.
6.0	23.6	1979.9	800.0	10.5	6.0	165.3	15.3	-3.9	14.8	302.4	322.8	7.4	73.4	2.7	1.
7.0	25.9	2243.2	775.0	8.8	1.3	161.0	14.9	-5.5	16.0	303.3	318.7	5.5	59.4	3.6	356.
8.0	28.7	2514.1	750.0	6.8	0.8	162.6	18.8	-5.6	17.9	303.9	319.0	5.3	64.3	4.8	353.
9.1	30.9	2791.7	725.0	4.6	-0.5	166.8	19.9	-4.3	18.4	304.5	319.0	5.1	69.8	5.9	351.
10.2	33.6	3076.8	700.0	2.2	-3.7	163.7	18.1	-5.1	17.3	304.9	317.1	4.2	65.6	7.2	350.
11.3	36.0	3370.0	675.0	1.6	-11.2	157.8	19.1	-7.2	17.7	307.5	314.7	2.4	37.7	8.4	349.
12.4	39.8	3673.2	650.0	0.0	-17.9	154.8	17.9	-7.6	16.2	309.0	313.5	1.4	24.5	9.5	347.
13.4	41.3	3987.1	625.0	-1.1	-9.1	157.8	19.7	-7.4	18.2	311.2	320.5	3.1	54.8	10.7	346.
14.6	44.2	4311.7	600.0	-2.5	-14.6	161.7	18.5	-5.8	17.6	313.2	319.7	2.1	39.5	12.1	345.
15.6	47.1	4648.2	575.0	-4.8	-12.3	166.1	18.5	-4.4	18.0	314.4	322.4	2.6	55.4	13.2	345.
17.0	50.2	4996.7	550.0	-7.6	-9.6	170.0	19.1	-3.3	19.8	315.1	325.3	3.4	88.6	14.7	345.
18.2	53.1	5357.6	525.0	-9.8	-10.2	170.9	18.0	-2.9	17.8	316.6	326.9	3.4	97.0	16.1	346.
19.6	56.0	5733.7	500.0	-10.9	-12.3	169.9	18.3	-3.2	18.0	319.7	329.0	3.0	85.3	17.6	346.
21.0	59.3	6126.6	475.0	-13.3	-15.3	172.7	16.1	-2.1	15.9	321.5	329.3	2.4	84.8	19.0	347.
22.4	62.7	6536.5	450.0	-16.3	-18.1	176.8	16.6	-0.9	16.6	322.8	329.3	2.0	85.4	20.3	347.
23.9	66.0	6964.5	425.0	-18.7	-20.9	177.5	18.0	-0.8	18.0	325.0	330.6	1.7	82.8	21.7	348.
25.3	69.7	7414.1	400.0	-22.2	-24.8	173.7	16.9	-1.8	16.8	326.1	330.4	1.3	79.1	23.4	348.
26.9	73.2	7885.8	375.0	-25.7	-28.6	175.1	19.4	-1.6	18.4	327.6	330.9	1.0	76.5	24.9	349.
28.5	77.1	8382.2	350.0	-29.7	-33.8	177.5	20.5	-0.9	20.4	328.7	330.9	0.6	67.3	26.9	349.
30.3	81.0	8906.5	325.0	-33.5	-37.9	188.3	19.4	2.8	19.2	330.5	332.1	0.4	64.4	28.9	350.
32.2	85.3	9463.4	300.0	-38.0	-43.8	195.3	17.3	4.6	16.7	331.9	332.8	0.3	53.7	31.0	352.
34.3	89.6	10056.	275.0	-42.9	99.9	180.7	15.5	0.2	15.5	333.2	999.9	99.9	999.9	32.7	353.
36.5	94.4	10691.2	250.0	-48.8	99.9	165.3	17.9	-4.6	17.3	333.5	999.9	99.9	999.9	35.0	353.
38.8	99.4	11374.0	225.0	-54.5	99.9	152.8	17.9	-8.2	15.9	335.0	999.9	99.9	999.9	37.3	352.
41.3	104.8	12121.5	200.0	-59.1	99.9	162.7	20.5	-6.1	19.5	339.2	999.9	99.9	999.9	40.1	350.
44.0	110.6	12955.0	175.0	-62.1	99.9	187.5	17.5	2.3	17.3	347.4	999.9	99.9	999.9	43.2	351.
47.1	116.9	13906.9	150.0	-58.8	99.9	171.9	12.1	-1.7	12.0	368.8	999.9	99.9	999.9	46.8	351.
50.9	124.0	15065.1	125.0	-59.1	99.9	234.2	7.6	6.2	4.4	388.8	999.9	99.9	999.9	47.7	352.
55.5	131.7	16448.0	100.0	-61.5	99.9	250.6	4.2	4.0	1.4	408.9	999.9	99.9	999.9	48.1	353.
61.2	139.7	18239.8	75.0	-61.3	99.9	125.8	4.2	-3.4	2.4	444.3	999.9	99.9	999.9	49.3	353.
68.7	147.7	20799.5	50.0	-56.5	99.9	88.4	7.7	-7.7	-0.2	510.4	999.9	99.9	999.9	49.8	350.
80.9	156.7	25244.7	25.0	-52.7	99.9	999.9	999.9	99.9	99.9	634.9	999.9	99.9	999.9	50.7	343.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 562
NORTH PLATTE, NEBRASKA

27 MAY 1977
1500 GMT

157 20. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MR RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	13.3	847.0	911.3	14.4	11.7	270.0	5.5	-5.6	0.0	295.3	320.6	9.5	84.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	14.4	957.0	900.0	14.5	12.3	275.9	6.0	6.0	-0.6	296.5	323.2	10.1	86.6	0.2	57.
1.3	16.5	1100.4	875.0	12.9	9.2	272.1	5.7	5.7	-0.2	297.2	319.9	8.4	78.9	0.4	96.
2.2	19.9	1478.2	850.0	13.9	2.8	281.3	6.4	6.3	-1.3	300.9	316.2	5.5	46.9	0.7	96.
3.1	21.1	1604.4	825.0	12.3	1.4	281.0	6.7	6.2	-2.4	301.5	316.1	5.2	47.3	1.1	68.
4.1	23.6	1944.0	800.0	11.0	0.0	289.6	6.4	5.5	-3.1	302.9	316.5	4.8	46.6	1.5	103.
5.0	25.9	2207.9	775.0	8.5	-1.9	306.4	7.6	6.1	-4.5	302.9	315.2	4.3	47.6	1.8	106.
6.0	28.6	2478.1	750.0	6.5	-2.8	302.0	7.1	6.1	-3.8	303.5	315.6	4.2	51.4	2.3	111.
7.0	31.7	2795.4	725.0	4.5	-4.7	308.7	6.1	4.9	-3.3	304.4	315.2	3.7	51.1	2.7	112.
8.0	34.0	3040.0	700.0	1.8	-5.6	300.4	4.9	3.4	-2.0	304.4	314.2	3.3	53.7	2.9	114.
9.0	36.6	3332.7	675.0	0.4	-8.7	279.3	5.0	5.0	-0.7	306.2	314.2	2.7	46.5	3.1	114.
10.1	39.4	3636.8	650.0	-0.9	-15.5	269.3	7.3	7.3	0.2	308.0	313.4	1.8	31.7	3.5	111.
11.1	42.1	3944.6	625.0	-3.4	-18.5	262.2	7.8	7.7	1.0	308.5	313.0	1.4	30.0	4.0	108.
12.3	45.1	4247.6	600.0	-6.2	-19.3	262.9	9.4	9.3	1.2	309.0	313.7	1.5	27.6	4.5	105.
13.5	48.3	4599.9	575.0	-7.9	-22.5	262.9	11.4	11.3	1.4	310.9	314.3	1.1	26.3	5.2	102.
14.6	51.1	4944.4	550.0	-9.5	-27.9	273.3	11.1	10.6	3.2	312.9	315.1	0.7	20.7	6.0	99.
15.9	54.4	5301.8	525.0	-12.7	-28.2	239.5	11.8	10.2	6.0	313.2	315.5	0.7	28.6	6.6	95.
17.2	57.6	5672.4	500.0	-15.0	-31.6	231.3	13.9	10.9	8.7	314.7	316.6	0.5	22.7	7.4	90.
18.7	61.0	6067.7	475.0	-18.3	-33.0	221.8	15.3	10.2	11.4	315.3	317.0	0.5	26.1	8.5	84.
20.2	64.5	6489.4	450.0	-20.6	-37.2	205.8	18.5	8.0	16.6	317.4	318.6	0.3	20.9	9.5	77.
21.8	68.1	6940.7	425.0	-22.4	-38.0	191.7	22.2	4.5	21.7	320.3	321.5	0.3	22.4	10.7	67.
23.1	71.7	7392.5	400.0	-26.5	-37.4	180.8	23.7	0.3	23.3	320.5	321.8	0.4	34.7	11.6	60.
24.7	75.7	7894.8	375.0	-29.5	-41.7	164.0	25.7	-7.1	24.7	321.9	326.4	0.7	73.8	12.7	50.
26.3	80.0	8427.7	350.0	-32.4	-35.6	152.1	26.7	-12.5	23.6	325.1	326.9	0.5	72.7	13.5	40.
28.0	84.0	8996.7	325.0	-36.2	-39.9	147.3	29.6	-13.4	24.0	326.9	328.2	0.4	68.2	14.8	30.
29.9	88.4	9569.0	300.0	-40.0	99.9	141.9	30.7	-15.9	26.3	328.9	999.9	99.9	999.9	16.6	19.
31.9	93.4	10235.0	275.0	-44.4	99.9	160.4	36.4	-12.2	34.3	330.9	999.9	99.9	999.9	19.5	11.
34.1	98.3	10949.7	250.0	-49.2	99.9	166.7	43.3	-9.9	42.2	333.0	999.9	99.9	999.9	24.2	8.
36.5	103.5	11751.4	225.0	-54.7	99.9	172.0	41.9	-5.8	41.5	336.7	999.9	99.9	999.9	30.8	2.
39.3	109.5	12006.3	200.0	-53.1	99.9	181.5	24.4	0.6	24.4	348.4	999.9	99.9	999.9	36.2	1.
42.2	115.6	12944.7	175.0	-54.3	99.9	179.2	15.9	-0.2	15.9	360.3	999.9	99.9	999.9	39.3	1.
45.6	122.7	13950.6	150.0	-54.9	99.9	211.1	17.2	8.9	14.7	375.6	999.9	99.9	999.9	42.6	2.
49.3	130.3	15021.5	125.0	-54.5	99.9	210.0	10.1	5.0	8.7	396.4	999.9	99.9	999.9	45.8	4.
53.0	138.7	16427.5	100.0	-58.1	99.9	229.7	5.7	5.1	4.3	415.5	999.9	99.9	999.9	46.7	5.
59.9	147.5	19221.7	75.0	-59.6	99.9	133.6	5.7	-4.2	4.0	445.0	999.9	99.9	999.9	48.4	6.
67.9	157.0	20773.5	50.0	-56.3	99.9	98.9	6.7	-6.7	1.0	510.9	999.9	99.9	999.9	48.4	3.
81.9	167.7	25243.5	25.0	-50.4	99.9	84.9	8.5	-8.5	-0.8	640.7	999.9	99.9	999.9	48.7	358.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
- BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 654
HURON, SOUTH DAKOTA

27 MAY 1977
1500 GMT

150 19. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	10.0	397.0	960.0	18.9	18.1	160.0	9.7	-3.2	9.7	295.5	331.3	13.4	95.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	10.8	492.2	950.0	18.1*	16.8	151.6	11.1	-5.3	9.7	295.6	329.0	12.8	91.7	0.4	340.
1.1	13.3	710.8	925.0	16.2	14.1	159.5	13.4	-4.9	12.5	295.9	325.0	11.0	87.5	0.9	334.
1.9	15.6	944.3	900.0	15.6	10.9	168.4	17.1	-3.4	16.8	297.5	322.2	9.2	73.8	1.7	340.
2.7	18.0	1183.0	875.0	13.9	9.5	169.5	16.5	-3.0	16.2	298.2	321.3	8.6	74.9	2.5	343.
3.6	20.5	1427.3	850.0	12.1	7.2	172.4	15.9	-2.1	15.8	299.8	319.3	7.5	72.0	3.3	345.
4.5	23.1	1674.7	825.0	9.8	6.5	175.1	15.3	-1.3	15.2	299.0	319.2	7.4	80.0	4.2	347.
5.3	25.6	1932.7	800.0	9.0	5.6	180.9	13.4	0.2	13.4	300.8	320.4	7.2	76.2	4.9	348.
6.4	28.3	2195.2	775.0	7.3	4.3	186.4	12.5	1.4	12.4	301.6	320.4	6.8	81.4	5.6	351.
7.4	31.0	2464.4	750.0	5.2	4.0	186.2	11.7	1.3	11.6	302.3	321.2	6.8	91.4	6.3	352.
8.6	33.9	2741.3	725.0	4.4	1.	194.6	11.6	2.9	11.3	304.3	320.5	5.7	76.3	7.0	354.
9.6	36.5	3027.7	700.0	3.9	0.4	201.5	11.5	4.2	10.7	306.8	323.0	5.7	78.3	7.7	356.
10.4	39.4	3323.7	675.0	2.5	-1.0	199.3	12.3	4.0	11.5	308.5	323.7	5.3	77.2	8.3	356.
11.4	42.1	3627.8	650.0	1.3	-2.7	194.4	11.9	3.0	11.5	310.4	324.6	4.8	74.4	9.0	360.
12.5	45.3	3943.7	625.0	-1.1	-3.3	191.0	12.5	2.4	12.3	311.2	325.3	4.8	85.2	9.8	1.
13.6	48.4	4267.5	600.0	-3.2	-5.0	190.7	13.7	2.5	13.5	312.5	325.5	4.4	86.9	10.7	2.
14.8	51.7	4603.7	575.0	-5.1	-7.5	190.8	15.9	3.0	15.7	314.1	325.5	3.8	83.2	11.5	2.
15.9	54.5	4952.1	550.0	-7.2	-10.9	192.0	17.3	3.5	16.9	315.5	324.9	3.1	75.9	12.4	3.
17.3	57.7	5313.7	525.0	-9.2	-12.9	185.6	16.9	1.7	16.8	317.4	325.8	2.7	73.9	14.1	4.
18.5	61.1	5690.0	500.0	-11.3	-14.8	176.7	20.4	-1.2	20.4	319.3	326.9	2.4	75.2	15.6	4.
19.8	64.6	6083.8	475.0	-13.8	-16.3	172.7	25.2	-3.2	25.0	321.3	328.5	2.3	76.7	17.2	3.
21.1	68.0	6491.0	450.0	-16.4	-19.7	169.7	24.9	-4.4	24.5	322.6	328.4	1.8	75.6	19.1	1.
22.5	71.5	6910.9	425.0	-19.3	-22.8	169.7	25.2	-4.7	25.8	324.2	328.9	1.4	73.9	21.2	0.
23.9	75.7	7347.0	400.0	-22.7	-24.8	168.4	25.6	-5.1	25.1	325.5	329.7	1.3	82.8	23.4	356.
25.4	79.3	7798.6	375.0	-25.9	-29.2	162.7	26.5	-7.9	25.3	327.4	330.8	1.0	80.7	25.7	358.
27.0	83.3	8334.9	350.0	-29.5	-34.3	157.8	26.6	-10.1	24.6	329.0	331.1	0.6	62.9	28.6	356.
28.7	87.7	8836.3	325.0	-33.7	-41.1	160.2	26.4	-8.9	24.8	330.2	331.4	0.3	47.0	30.6	355.
30.4	91.7	9416.0	300.0	-37.7	-47.8	169.5	28.9	-5.7	25.3	332.2	332.8	0.2	33.5	33.3	354.
32.1	96.2	10009.5	275.0	-42.6	99.9	174.0	28.1	-2.9	24.0	333.5	999.9	99.9	999.9	36.1	354.
33.7	100.9	10644.2	250.0	-48.5	99.9	172.5	30.8	-3.9	30.5	333.8	999.9	99.9	999.9	39.2	354.
35.4	105.2	11327.4	225.0	-54.7	99.9	179.5	29.1	-0.3	29.1	334.7	999.9	99.9	999.9	42.5	354.
37.7	111.4	12076.5	200.0	-57.2	99.9	167.7	25.3	-5.4	24.7	342.3	999.9	99.9	999.9	45.7	354.
39.9	117.0	12907.4	175.0	-66.6	99.9	155.5	26.2	-10.8	23.8	343.3	999.9	99.9	999.9	49.0	353.
42.4	123.7	13870.1	150.0	-57.7	99.9	183.4	16.5	1.0	16.5	370.7	999.9	99.9	999.9	52.2	352.
45.6	133.0	15020.1	125.0	-56.9	99.9	183.2	12.1	0.7	12.1	392.0	999.9	99.9	999.9	54.6	353.
49.6	134.9	16430.6	100.0	-60.6	99.9	172.9	7.4	-0.9	7.3	410.7	999.9	99.9	999.9	56.7	353.
54.9	143.7	18227.6	75.0	-60.0	99.9	120.2	4.7	-4.1	2.4	443.1	999.9	99.9	999.9	58.2	353.
62.1	150.0	20788.7	50.0	-54.1	99.9	94.1	9.4	-9.4	0.6	515.9	999.9	99.9	999.9	59.4	351.
74.4	157.3	25254.0	25.0	-41.4	99.9	999.9	99.9	99.9	99.9	637.4	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 642
RAPID CITY, SOUTH DAKOTA

27 MAY 1977
1435 GMT

145 16. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.9	966.0	934.0	13.1	11.0	110.0	4.6	-4.3	1.6	295.6	320.2	9.3	86.0	0.0	0.
99.9	99.9	99.9	1003.0	99.0	99.9	99.0	99.0	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.3	99.9	99.0	99.0	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.0	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.3	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	900.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.7	14.6	1165.5	875.0	14.0	5.7	243.3	4.4	3.9	2.0	298.3	316.4	6.6	57.3	0.2	331.
1.8	19.0	1430.0	850.0	13.1	1.0	244.4	8.4	7.7	3.4	9.1	313.7	4.9	43.0	0.4	30.
2.7	21.2	1640.5	825.0	11.4	-0.0	253.2	9.0	7.7	2.3	300.6	313.7	4.6	45.4	0.6	27.
3.6	23.6	1914.8	800.0	9.4	-1.4	251.9	8.5	8.1	2.7	301.3	313.6	4.3	46.3	1.3	63.
4.8	25.9	2170.5	775.0	8.1	-3.7	257.2	9.7	9.5	2.2	302.5	313.3	3.8	42.9	1.8	65.
5.8	28.4	2443.7	750.0	6.5	-4.7	259.7	9.5	9.5	0.0	303.8	314.1	3.6	44.7	2.3	76.
6.9	31.0	2726.6	725.0	4.1	-6.1	265.5	6.7	6	0.5	303.9	313.7	3.3	47.3	3.0	74.
8.0	33.6	3010.6	700.0	1.3	-7.7	268.7	5.4	4.6	2.8	303.9	312.9	3.1	51.1	3.4	74.
9.3	36.1	3302.9	675.0	-0.6	-10.0	234.3	6.8	5.5	4.0	305.0	314.9	2.6	48.6	3.8	71.
10.6	38.9	3603.2	650.0	-2.9	-12.8	240.2	8.8	7.6	4.4	306.5	313.1	2.2	43.6	4.4	69.
11.9	41.4	3914.0	625.0	-4.3	-15.8	237.4	10.3	8.7	5.6	307.6	313.1	1.9	40.2	5.1	68.
13.0	44.3	4234.8	600.0	-6.5	-22.4	230.2	11.4	9.8	5.9	309.6	311.9	1.1	27.1	5.9	67.
14.1	47.7	4565.6	575.0	-8.6	-28.1	235.2	11.6	9.5	6.6	309.9	312.1	0.7	15.1	6.6	66.
15.5	50.3	4909.5	550.0	-9.7	-33.0	218.2	12.9	8.0	10.1	312.6	314.0	0.4	12.9	7.5	64.
16.9	53.3	5267.0	525.0	-11.0	-34.1	193.6	22.0	5.2	21.3	314.1	315.5	0.4	13.8	8.5	54.
18.5	56.3	5638.3	500.0	-15.0	-37.4	277.1	14.8	13.7	-1.8	314.9	315.9	0.3	12.6	9.3	56.
20.0	59.6	6023.8	475.0	-18.4	-38.3	213.2	9.4	4.4	7.0	315.2	316.2	0.3	15.4	10.0	57.
21.5	63.0	6424.6	450.0	-21.9	-39.9	212.1	9.8	3.2	8.3	315.7	316.6	0.3	17.6	10.7	55.
23.1	66.4	6843.4	425.0	-23.3	-37.5	198.4	15.0	4.7	14.2	318.4	319.6	0.4	27.1	11.7	52.
24.6	70.1	7283.9	400.0	-27.5	-34.8	186.6	19.7	2.3	19.5	319.7	321.0	0.5	45.5	12.6	48.
26.2	73.7	7743.8	375.0	-31.2	-37.7	182.2	21.6	0.8	21.9	320.4	321.7	0.4	52.2	14.5	42.
27.9	77.7	8229.3	350.0	-34.8	-42.5	174.2	25.0	-2.5	24.9	321.6	322.8	0.3	44.8	16.2	36.
29.7	81.7	8743.4	325.0	-37.9	-45.0	169.5	32.5	-5.9	31.9	324.5	325.2	0.2	46.6	18.5	26.
31.4	85.9	9292.2	300.0	-40.4	99.9	161.4	40.7	-12.9	38.5	328.5	999.9	99.9	999.9	21.9	23.
33.5	90.4	9876.4	275.0	-45.4	99.9	163.8	43.1	-13.0	41.4	329.5	999.9	99.9	999.9	25.4	15.
35.8	95.3	10509.7	250.0	-48.7	99.9	168.4	48.9	-9.9	47.9	332.7	999.9	99.9	999.9	30.7	10.
37.9	100.3	11191.9	225.0	-54.3	99.9	171.5	46.2	-4.8	45.6	335.1	999.9	99.9	999.9	37.3	6.
40.3	105.8	11948.1	200.0	-50.0	99.9	171.7	26.2	-1.8	26.0	353.6	999.9	99.9	999.9	42.4	5.
43.2	111.7	12818.4	175.0	-51.4	99.9	174.5	21.1	-2.0	21.0	365.1	999.9	99.9	999.9	45.8	3.
46.4	118.0	13817.4	150.0	-53.9	99.9	191.4	17.9	3.5	17.5	377.3	999.9	99.9	999.9	49.4	3.
49.9	125.0	14985.7	125.0	-52.3	99.9	201.5	9.6	3.9	8.8	430.3	999.9	99.9	999.9	52.5	5.
53.0	132.3	16405.3	100.0	-57.3	99.9	176.9	10.1	-0.6	10.1	417.0	999.9	99.9	999.9	54.3	4.
56.5	140.0	18218.4	75.0	-58.2	99.9	133.0	5.5	-4.0	3.8	451.8	999.9	99.9	999.9	56.9	4.
64.9	147.5	20799.8	50.0	-54.0	99.9	96.6	7.0	-6.9	0.8	516.7	999.9	99.9	999.9	57.2	2.
79.9	155.3	25248.9	25.0	-50.9	99.9	97.4	11.5	-11.4	1.5	638.0	999.9	99.9	999.9	57.2	358.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 11C01
MARSHALL SFC, AL MSFMA

27 MAY 1977
1447 GMT

103 148. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	5.8	190.0	992.3	23.5	18.3	100.0	4.6	-4.5	0.8	297.3	332.5	13.4	72.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	7.1	339.9	975.0	21.3	15.8	999.9	999.9	99.9	99.9	296.5	327.3	11.7	70.9	999.9	999.
1.5	9.1	555.5	950.0	19.5	14.1	999.9	999.9	99.9	99.9	296.9	325.3	10.7	71.0	999.9	999.
2.5	11.9	784.2	925.0	18.9	12.0	124.9	6.2	-5.1	3.5	295.9	321.3	9.6	70.4	1.0	264.
3.5	13.1	1017.9	900.0	14.9	10.9	138.9	4.9	-3.2	3.7	297.8	321.3	9.2	77.1	1.3	267.
4.4	15.9	1255.6	875.0	13.9	9.1	188.7	1.9	0.3	1.8	298.2	320.7	8.3	77.1	1.5	301.
5.5	17.3	1500.1	850.0	13.1	7.9	150.1	1.7	-0.4	1.2	299.9	321.5	7.9	70.9	1.5	303.
6.5	19.5	1751.2	25.0	12.0	6.5	96.7	1.1	-1.0	0.1	301.3	321.6	7.4	69.1	1.5	304.
7.7	21.6	2009.8	800.0	10.9	5.3	86.6	2.1	-2.1	-0.1	302.8	322.3	7.0	66.1	1.6	301.
8.7	23.8	2273.2	775.0	9.4	3.7	114.6	3.5	-3.3	1.0	303.9	322.1	6.5	67.8	1.8	300.
9.9	24.0	2544.4	750.0	7.7	2.0	128.6	2.4	-1.8	1.5	304.9	321.6	5.9	67.3	1.9	300.
11.1	28.8	2824.1	725.0	6.5	0.8	111.8	4.0	-3.7	1.5	306.5	322.7	5.6	67.0	2.1	300.
12.2	30.7	3111.9	700.0	5.9	-0.4	89.6	6.1	-6.1	-0.0	308.3	323.7	5.3	67.1	2.5	297.
13.3	33.1	3408.2	675.0	3.7	-1.8	77.9	6.4	-6.7	-1.4	309.8	324.3	5.0	67.5	2.8	292.
14.5	35.5	3714.0	650.0	1.7	-4.2	83.0	7.7	-7.7	-0.9	310.5	323.2	4.3	66.5	3.3	287.
15.8	38.0	4029.5	625.0	-1.0	-6.7	78.4	8.2	-8.1	-1.7	311.3	322.4	3.7	65.3	3.8	283.
17.1	40.5	4357.7	600.0	-2.4	-8.1	83.6	8.7	-8.3	-1.9	313.3	323.8	3.5	65.2	4.4	279.
18.4	43.1	4691.4	575.0	-2.8	-8.2	58.8	8.8	-7.5	-4.6	316.7	327.6	3.6	66.4	4.9	274.
19.7	45.8	5042.8	550.0	-5.0	-10.4	72.2	10.3	-9.8	-3.2	318.1	327.9	3.2	65.9	5.6	270.
21.2	48.6	5409.0	525.0	-6.4	-12.0	85.5	11.5	-11.5	-0.9	320.7	328.8	2.9	64.2	6.6	269.
22.8	51.3	5787.9	500.0	-9.0	-14.7	84.2	8.4	-8.3	-0.8	322.1	329.9	2.4	63.0	7.6	269.
24.4	54.3	6183.6	475.0	-10.6	-22.2	60.9	6.6	-5.7	-3.2	324.8	329.3	1.4	37.6	8.2	267.
25.0	57.3	6597.7	450.0	-13.4	-25.6	52.1	5.8	-4.6	-3.6	326.3	329.9	1.1	35.0	8.7	265.
27.7	60.3	7029.5	425.0	-17.3	-24.3	45.1	5.4	-4.9	-4.9	326.8	329.8	0.9	37.6	9.3	263.
29.6	63.6	7480.0	400.0	-20.7	-30.1	45.6	6.4	-4.6	-4.5	328.1	330.8	0.8	42.4	9.9	260.
31.6	66.9	7954.5	375.0	-24.6	-32.2	24.0	2.9	-1.1	-2.6	329.0	331.4	0.7	48.9	10.3	258.
33.5	70.4	8453.8	350.0	-28.3	-35.9	44.7	3.4	-2.5	-2.2	330.5	332.5	0.5	47.8	10.8	257.
35.4	74.0	8980.5	325.0	-32.6	-40.1	57.8	1.5	-1.0	-1.9	331.7	333.0	0.3	46.6	10.9	257.
37.8	77.9	9539.6	300.0	-37.7	-44.7	47.2	3.3	-2.0	-1.3	332.3	333.2	0.2	47.4	11.3	256.
40.1	81.9	10131.8	275.0	-42.7	99.9	100.6	4.3	-4.2	0.8	333.7	999.9	99.9	999.9	11.7	255.
42.7	86.0	10758.3	250.3	-47.7	99.9	90.5	3.4	-3.3	0.6	335.1	999.9	99.9	999.9	12.3	258.
45.5	90.7	11454.7	225.0	-53.5	99.9	88.7	3.5	-3.5	-0.4	336.5	999.9	99.9	999.9	12.8	256.
48.0	95.5	12202.4	200.0	-58.7	99.9	147.3	3.4	-1.9	3.0	340.5	999.9	99.9	999.9	13.4	259.
51.0	100.7	13034.5	175.0	-62.4	99.9	260.3	3.5	3.5	0.6	347.0	999.9	99.9	999.9	12.9	259.
54.2	104.5	13986.9	150.0	-61.3	99.9	999.9	99.9	99.9	99.9	368.5	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	125.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	100.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	75.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	50.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

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Sounding Data

27 May 1977

1700 GMT

STATION NO. 229
CENTERVILLE, ALABAMA

27 MAY 1977
1900 GMT

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TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	PT T DG K	E PDT T DG K	MR PTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.2	140.0	993.3	27.0	13.5	70.0	3.1	-2.9	-1.1	303.7	340.2	14.9	65.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	9.1	108.7	975.0	23.0	18.6	56.9	3.6	-3.0	-2.1	299.3	335.2	14.0	76.6	0.2	252.
1.9	11.7	575.9	950.0	20.7	17.2	71.5	3.6	-1.3	-2.2	298.2	332.9	13.2	80.5	0.4	235.
3.0	13.7	765.9	925.0	19.7	15.8	320.5	0.9	0.6	-0.7	299.3	331.6	12.3	80.7	0.5	220.
3.9	15.9	1001.5	900.0	17.5	14.4	294.5	1.0	0.9	-0.4	297.6	330.4	11.6	81.8	0.4	228.
4.8	18.4	1242.1	875.0	16.1	12.3	299.2	2.0	1.7	-0.9	300.5	328.4	10.4	78.4	0.4	215.
5.7	20.8	1484.6	850.0	14.3	10.5	290.9	3.0	2.8	-1.1	301.3	327.6	9.5	75.1	0.4	194.
6.5	23.3	1731.0	825.0	12.8	9.6	299.0	3.1	2.7	-1.5	302.1	325.5	8.8	72.6	0.5	177.
7.3	25.8	1980.7	800.0	11.0	9.0	299.3	3.1	2.7	-1.5	302.9	327.7	9.1	87.8	0.6	165.
8.3	28.4	2263.8	775.0	8.9	7.2	294.9	3.0	2.7	-1.2	303.4	326.3	8.3	86.5	0.7	156.
9.3	31.1	2534.9	750.0	7.6	2.7	293.9	3.1	3.0	-0.7	304.8	322.3	6.2	71.2	0.8	148.
10.4	33.9	2814.0	725.0	6.1	1.6	272.5	2.6	2.6	-0.1	306.2	323.1	6.0	73.1	1.0	137.
11.4	36.6	3101.4	700.0	4.3	1.5	269.8	2.6	2.6	0.1	307.4	324.9	6.1	81.0	1.1	131.
12.4	39.3	3397.1	675.0	2.5	-0.7	279.9	2.9	2.9	-0.4	309.5	324.0	5.4	79.2	1.2	126.
13.5	42.0	3701.7	650.0	0.4	-1.2	301.4	2.7	2.7	-1.4	309.6	325.3	5.4	87.8	1.4	124.
14.7	45.0	4014.7	625.0	-0.3	-1.5	301.5	2.7	2.1	-1.7	311.5	325.4	4.7	82.2	1.5	125.
15.9	48.1	4342.4	600.0	-2.3	-6.8	300.9	1.8	1.6	-0.9	313.4	324.9	3.8	71.1	1.8	125.
17.0	51.0	4679.7	575.0	-4.1	-9.1	307.9	1.9	1.4	-1.1	315.2	326.1	3.6	73.5	1.9	125.
18.4	54.1	5029.4	550.0	-6.0	-10.3	304.0	3.1	2.6	-1.7	316.9	326.7	3.2	71.6	2.0	125.
19.7	57.1	5393.0	525.0	-7.5	-15.7	310.7	5.3	4.0	-3.5	319.4	326.3	2.2	51.9	2.4	125.
21.0	60.6	5772.0	500.0	-9.1	-20.1	320.8	5.2	3.6	-4.5	321.9	327.0	1.5	40.2	2.9	127.
22.3	64.0	6167.4	475.0	-11.3	-21.0	347.4	4.4	0.9	-4.3	324.0	328.2	1.3	37.3	3.1	131.
23.8	67.3	6580.4	450.0	-14.0	-26.5	340.2	3.5	1.2	-3.3	325.7	329.0	1.0	33.6	3.4	134.
25.4	70.9	7011.9	425.0	-17.5	-30.3	327.5	2.4	1.3	-2.0	326.5	329.0	0.7	31.6	3.7	136.
27.0	74.5	7463.8	400.0	-21.2	-31.6	307.6	1.9	1.6	-1.1	327.5	329.4	0.6	31.5	3.9	136.
28.7	78.5	7935.2	375.0	-25.6	-36.2	309.4	2.2	1.7	-1.4	327.8	329.4	0.5	35.5	4.1	135.
30.5	82.7	8431.6	350.0	-29.5	-40.6	290.1	1.2	1.9	-1.4	329.0	330.1	0.3	32.8	4.4	134.
32.5	86.7	8954.7	325.0	-33.5	-43.3	286.1	4.6	4.4	-1.3	330.5	331.4	0.2	36.4	4.9	131.
34.5	90.7	9511.5	300.0	-39.3	-44.0	282.7	2.1	2.0	-0.5	331.4	332.1	0.2	34.8	5.3	129.
35.4	95.3	10103.4	275.0	-43.7	99.0	270.3	1.7	1.7	-0.0	331.9	999.9	99.9	999.9	5.4	128.
38.9	100.0	10735.4	250.0	-49.2	99.9	265.5	1.4	1.4	0.1	333.3	999.9	99.9	999.9	5.6	127.
41.1	105.8	11417.4	225.0	-55.2	99.9	272.5	2.8	2.8	-0.1	333.9	999.9	99.9	999.9	5.8	125.
43.7	110.4	12159.7	200.0	-60.4	99.9	301.9	8.4	7.1	-4.4	336.8	999.9	99.9	999.9	6.6	124.
46.9	115.0	12990.7	175.0	-64.1	99.9	296.3	9.9	8.9	-4.2	344.2	999.9	99.9	999.9	8.3	124.
50.1	122.9	13935.4	150.0	-61.8	99.9	303.2	8.3	7.0	-4.6	363.7	999.9	99.9	999.9	10.2	123.
54.8	129.5	15044.9	125.0	-62.0	99.9	302.5	5.4	4.7	-3.0	382.7	999.9	99.9	999.9	11.7	122.
59.8	136.8	16425.9	100.0	-63.5	99.9	307.8	4.1	3.2	-2.5	405.1	999.9	99.9	999.9	13.1	123.
64.8	143.9	19192.2	75.0	-63.4	99.9	310.4	2.5	1.9	-1.6	440.0	999.9	99.9	999.9	14.1	123.
72.0	151.5	20709.2	50.0	-59.8	99.9	109.9	4.5	-4.3	1.5	502.7	999.9	99.9	999.9	14.5	125.
85.8	159.3	25159.2	25.0	-48.5	99.9	214.8	3.3	1.9	2.7	645.7	999.9	99.9	999.9	11.1	132.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 235
JACKSON, MISSISSIPPI

27 MAY 1977
1700 GMT

160 11. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	6.1	100.0	997.9	30.0	19.8	350.0	2.6	0.5	-2.6	303.3	340.5	13.9	51.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	9.4	305.0	973.0	24.2	16.0	357.9	1.0	0.0	-1.0	299.5	331.0	11.8	60.2	0.1	162.
1.9	10.7	532.2	950.0	23.7	15.9	32.7	1.7	-1.1	-1.3	300.2	332.5	12.1	65.4	0.1	173.
1.9	13.1	760.8	925.0	19.7	14.7	21.2	1.4	-0.5	-1.7	299.5	330.1	11.5	72.9	0.2	168.
2.5	15.5	989.9	900.0	19.0	14.3	342.7	1.6	0.5	-1.5	300.0	330.8	11.5	75.1	0.3	167.
3.5	18.0	1240.5	875.0	18.0	13.6	302.4	2.1	1.9	-1.1	299.4	329.6	11.3	51.3	0.3	160.
4.9	20.5	1486.5	850.0	14.7	10.6	248.7	2.5	2.3	0.9	301.1	326.9	9.5	76.6	0.4	146.
6.3	23.0	1738.5	825.0	13.1	7.0	240.6	3.6	3.6	-0.6	302.4	323.6	7.7	66.8	0.5	122.
7.3	25.5	1987.2	800.0	11.4	5.6	253.4	3.8	3.5	-1.5	303.3	323.7	7.3	69.0	0.7	115.
8.8	28.1	2242.1	775.0	9.7	3.9	259.7	3.6	3.2	-1.9	304.3	322.7	6.6	67.0	1.0	117.
9.4	30.8	2514.5	750.0	8.8	2.0	313.0	3.8	2.8	-2.6	305.1	323.0	5.9	62.5	1.2	119.
10.3	33.4	2814.7	725.0	7.4	0.8	314.7	4.3	3.5	-2.4	307.6	323.7	5.6	62.7	1.4	122.
11.4	36.1	3107.1	700.0	5.6	-0.8	314.1	4.0	3.3	-2.2	308.7	322.6	5.2	63.1	1.8	124.
12.7	38.8	3406.8	675.0	4.0	-3.0	315.8	4.0	3.9	-2.0	310.1	323.5	4.6	60.3	2.3	127.
13.0	41.4	3706.0	650.0	2.0	-5.4	311.6	4.0	4.0	-2.3	311.2	323.0	4.0	58.2	2.8	128.
14.9	44.2	4021.8	625.0	0.5	-8.2	316.1	4.7	4.0	-2.3	313.0	323.0	3.3	51.8	3.3	129.
16.0	47.0	4348.4	600.0	-1.0	-12.4	314.9	10.3	7.1	-7.5	315.0	322.7	2.5	41.8	3.9	130.
17.2	50.7	4687.0	575.0	-3.0	-17.0	315.6	12.2	8.5	-8.7	316.3	322.0	1.8	33.1	4.7	131.
18.5	53.0	5037.1	550.0	-5.4	-19.7	312.7	10.4	7.3	-7.3	317.5	322.6	1.6	24.7	5.6	132.
19.9	56.0	5401.0	525.0	-7.9	-22.4	313.5	10.5	7.0	-7.9	319.9	322.4	0.9	17.9	6.6	132.
21.6	60.1	5779.3	500.0	-9.7	-25.4	304.6	7.3	6.0	-4.1	321.2	324.5	1.0	26.4	7.4	131.
22.9	63.4	6177.2	475.0	-12.5	-31.4	305.6	6.2	5.1	-3.6	322.5	324.5	0.6	19.3	7.9	131.
24.4	66.3	6583.6	450.0	-15.6	-37.1	311.7	6.4	4.8	-4.2	323.7	324.9	0.4	13.5	8.4	131.
25.0	70.5	7012.0	425.0	-19.2	-39.9	317.0	7.4	5.8	-5.1	324.3	325.4	0.3	14.0	9.1	131.
27.5	74.0	7459.7	400.0	-22.4	-43.7	304.9	6.9	5.6	-3.9	325.9	326.9	0.3	18.9	9.9	131.
29.4	77.9	7939.2	375.0	-26.0	-39.1	286.4	5.5	5.3	-1.5	327.2	328.4	0.3	28.0	10.4	130.
31.2	81.7	8434.0	350.0	-29.7	-39.1	281.3	5.3	5.4	-1.1	328.7	330.0	0.4	39.2	10.9	128.
33.0	85.7	8950.5	325.0	-33.5	-44.1	289.6	4.1	3.9	-1.4	330.5	331.3	0.2	33.2	11.4	127.
35.0	90.0	9504.7	300.0	-38.4	-40.2	247.5	4.3	4.1	-1.3	331.3	331.9	0.1	26.3	11.9	127.
37.1	94.6	10099.0	275.0	-43.2	99.9	241.2	4.7	4.6	-0.9	332.6	999.9	99.9	999.9	12.4	126.
39.6	99.2	10734.7	250.0	-48.1	99.9	275.4	6.3	6.3	-0.6	334.5	999.9	99.9	999.9	13.0	124.
41.9	104.0	11421.0	225.0	-53.7	99.9	270.3	12.7	12.7	-0.1	336.9	999.9	99.9	999.9	14.2	121.
44.4	109.4	12168.0	200.0	-59.9	99.9	269.6	13.3	13.3	0.1	339.0	999.9	99.9	999.9	16.2	117.
47.1	115.0	12994.4	175.0	-63.1	99.9	247.7	11.3	10.9	-3.0	345.9	999.9	99.9	999.9	17.9	115.
50.2	121.3	13945.6	150.0	-66.1	99.9	297.0	6.9	6.1	-3.2	356.2	999.9	99.9	999.9	19.8	115.
54.0	128.9	15056.4	125.0	-62.1	99.9	290.5	6.7	6.3	-2.3	382.5	999.9	99.9	999.9	20.8	115.
59.5	135.7	16431.4	100.0	-63.3	99.9	346.8	4.2	1.1	-4.0	405.4	999.9	99.9	999.9	22.6	114.
64.1	143.0	18188.7	75.0	-65.7	99.9	273.2	2.5	2.5	-0.4	474.9	999.9	99.9	999.9	22.5	114.
71.7	151.7	20408.4	50.0	-58.4	99.9	34.0	4.7	-3.6	-1.0	505.5	999.9	99.9	999.9	21.9	116.
83.4	160.0	25133.9	25.0	-48.5	99.9	999.9	999.9	99.9	99.9	645.3	999.9	99.9	999.9	19.0	119.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 5 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 5 DEG

STATION NO. 240
LAKE CHARLES, LOUISIANA

27 MAY 1977
1700 GMT

157 12. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MR RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	5.0	5.0	1009.9	28.9	21.1	240.0	1.1	2.7	1.5	301.2	343.1	15.9	63.0	0.0	0.
0.2	5.7	82.1	1003.9	28.0	20.6	243.6	3.1	2.8	1.6	301.2	342.3	15.5	64.0	0.1	42.
1.0	7.9	216.8	995.0	26.1	20.3	257.0	3.5	3.5	0.8	301.7	343.2	15.6	66.5	0.3	62.
1.8	10.1	365.8	980.0	23.9	19.5	279.1	3.0	3.0	-0.3	301.5	342.1	15.3	70.4	0.5	71.
2.7	12.1	528.6	965.0	20.7	19.5	301.3	3.1	2.6	-1.6	300.7	339.6	14.7	80.3	0.6	78.
3.9	14.4	1015.0	950.0	19.1	14.5	321.2	4.2	2.7	-3.	301.2	336.9	13.3	64.7	0.8	86.
5.1	16.5	1258.1	935.0	17.5	12.8	328.6	4.6	2.4	-4.0	302.3	331.1	10.8	74.2	1.0	110.
6.1	18.8	1505.0	920.0	17.1	8.4	345.2	4.2	1.0	-4.1	304.1	329.8	8.2	56.5	1.2	119.
7.8	21.1	1760.0	905.0	15.6	6.2	346.8	3.7	0.9	-3.6	305.1	325.5	7.3	53.5	1.4	126.
9.0	23.5	2020.0	890.0	14.1	4.6	342.7	4.2	1.3	-4.1	306.2	325.1	6.7	52.7	1.5	132.
9.3	25.8	2043.1	875.0	12.4	2.8	331.8	5.8	2.7	-5.1	307.4	324.8	6.1	51.3	1.9	136.
10.7	28.4	2543.8	850.0	11.7	0.7	332.1	5.9	2.7	-5.2	309.3	324.9	5.4	46.7	2.4	139.
12.9	31.1	2844.9	825.0	10.1	-4.7	335.5	6.6	2.7	-6.0	310.6	320.2	3.2	25.5	2.8	142.
13.1	33.7	3139.7	800.0	9.6	-2.0	331.1	7.1	4.4	-5.0	313.2	326.5	4.5	41.7	3.3	144.
14.7	36.3	3439.7	775.0	7.5	-1.5	325.9	11.2	6.3	-9.3	314.1	328.8	4.9	51.0	4.0	146.
15.4	39.0	3743.4	750.0	5.5	-4.1	319.7	11.5	7.5	-8.8	315.2	328.3	4.4	46.6	4.5	146.
15.9	41.7	4049.4	725.0	3.4	-5.2	316.2	12.6	8.7	-9.1	316.4	329.0	4.2	53.1	5.8	143.
19.2	44.4	4359.1	700.0	0.4	-7.4	314.1	13.1	10.2	-8.8	316.5	327.7	3.6	55.7	7.0	142.
19.7	47.6	4779.1	675.0	-2.5	-10.0	309.7	14.3	11.0	-9.1	317.1	326.7	3.1	55.5	8.2	140.
21.0	50.5	5000.5	650.0	-5.1	-12.1	304.0	12.5	10.4	-7.0	317.8	326.3	2.7	59.6	9.3	139.
22.3	53.5	5454.1	625.0	-8.4	-14.6	299.0	10.3	9.5	-4.7	318.3	325.7	2.3	61.0	10.2	137.
23.8	56.6	5931.0	600.0	-11.0	-16.6	298.7	9.7	9.1	-3.3	319.6	326.3	2.1	63.6	11.0	135.
25.3	59.9	6433.5	575.0	-13.5	-20.1	294.1	9.3	9.0	-2.3	321.2	326.5	1.4	57.2	11.8	133.
27.0	63.3	6932.5	550.0	-16.5	-23.1	295.4	10.4	10.0	-2.8	322.3	326.7	1.3	57.1	12.6	131.
28.7	66.8	7450.5	525.0	-19.7	-24.1	297.0	12.5	12.2	-2.8	323.7	328.0	1.3	68.1	13.7	129.
30.6	70.3	7987.4	500.0	-22.4	-27.4	294.7	13.2	13.1	-2.0	325.9	327.8	0.5	34.4	14.9	127.
32.2	73.9	7977.5	475.0	-25.4	-27.6	269.8	14.4	14.4	0.0	326.5	328.0	0.4	33.7	16.2	124.
34.0	77.8	8472.7	450.0	-30.2	-42.3	251.0	11.9	11.1	4.2	324.1	329.0	0.3	26.3	17.3	121.
36.9	81.7	8985.7	425.0	-34.5	-46.7	247.3	10.6	9.7	4.1	329.3	329.7	0.2	27.6	18.0	117.
37.0	85.9	9519.5	400.0	-39.0	-51.6	241.0	9.7	8.2	4.4	330.9	331.0	0.1	26.3	18.9	115.
40.2	90.4	10140.6	375.0	-43.9	99.9	226.9	7.9	5.7	5.2	331.7	999.9	99.9	999.9	19.3	112.
42.2	95.2	10775.7	350.0	-48.0	99.9	247.4	12.9	11.4	6.7	334.8	999.9	99.9	999.9	20.1	106.
45.0	100.2	11464.0	325.0	-52.1	99.9	251.6	12.4	12.2	2.2	338.7	999.9	99.9	999.9	21.9	100.
47.6	105.5	12218.5	300.0	-56.4	99.9	241.0	13.6	13.4	2.1	343.2	999.9	99.9	999.9	23.6	104.
50.4	111.3	13058.5	275.0	-60.3	99.9	261.7	14.1	13.9	-2.9	350.4	999.9	99.9	999.9	26.3	102.
53.9	117.7	14014.9	250.0	-60.5	99.9	268.3	12.5	11.9	-3.9	365.9	999.9	99.9	999.9	28.5	103.
58.1	125.3	15147.0	225.0	-62.3	99.9	285.4	11.1	10.5	-3.0	382.2	999.9	99.9	999.9	31.0	103.
62.9	133.7	16518.7	200.0	-64.2	99.9	294.2	5.1	4.5	-2.0	403.7	999.9	99.9	999.9	33.8	103.
63.9	140.2	18249.0	175.0	-66.8	99.9	301.0	4.2	3.6	-2.2	474.6	999.9	99.9	999.9	35.8	102.
76.4	148.3	20772.4	150.0	-68.9	99.9	104.8	5.4	-5.2	1.4	505.8	999.9	99.9	999.9	34.8	100.
48.5	156.7	25233.5	125.0	-69.7	99.9	999.9	999.9	99.9	99.9	643.2	999.9	99.9	999.9	30.8	105.

* AV SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* AV TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** AV SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 247
LONGVIEW, TEXAS

27 MAY 1977
1730 GMT

154 15. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PGT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	4.3	134.0	996.2	29.4	18.2	230.0	2.6	0.9	2.4	302.9	338.8	13.4	51.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.4	8.9	715.9	975.0	27.5	18.7	999.9	99.9	99.9	99.9	302.5	340.9	14.1	58.4	999.9	999.
1.0	11.0	536.9	950.0	24.8	15.8	999.9	999.9	99.9	99.9	302.3	336.7	12.9	61.0	999.9	999.
1.9	13.3	776.0	925.0	22.0	15.7	999.9	999.9	99.9	99.9	301.9	334.7	12.3	67.6	999.9	999.
2.7	15.4	1016.9	900.0	19.6	15.6	999.9	999.9	99.9	99.9	301.7	335.3	12.5	77.8	999.9	999.
3.6	18.1	1260.1	875.0	17.7	15.2	999.9	999.9	99.9	99.9	302.1	335.9	12.5	85.5	0.3	23.
4.5	20.5	1507.4	850.0	17.6	9.6	260.0	0.6	0.6	0.1	304.6	329.4	9.0	59.9	0.3	24.
5.4	23.1	1759.1	825.0	16.4	5.0	230.5	2.1	2.1	-1.0	305.9	324.7	6.7	47.0	0.3	33.
6.4	25.5	2015.5	800.0	14.7	3.9	253.0	5.7	5.2	-2.3	306.8	324.9	6.3	48.2	0.4	65.
7.3	28.0	2281.9	775.0	13.2	-5.0	295.9	8.1	7.4	-3.6	308.0	318.1	3.4	27.7	0.7	96.
8.2	30.7	2556.5	750.0	12.3	-7.6	305.1	8.3	6.5	-4.7	309.4	318.3	2.9	24.7	1.2	101.
9.1	33.4	2844.9	725.0	9.2	-9.4	313.2	5.3	4.0	-3.4	309.5	319.5	3.3	33.3	1.5	108.
10.2	36.3	3145.9	700.0	6.4	-3.0	323.6	5.2	3.1	-4.2	310.1	323.0	4.4	46.6	1.8	114.
11.2	39.3	3459.9	675.0	5.1	-2.4	317.0	6.3	5.0	-4.7	311.4	324.5	4.4	54.1	2.1	118.
12.2	42.6	3787.5	650.0	2.4	-5.3	302.5	8.5	7.2	-4.6	312.1	323.6	3.8	53.2	2.6	120.
13.2	46.0	4130.0	625.0	0.6	-10.9	298.0	9.3	8.0	-4.7	313.2	321.4	2.7	41.6	3.2	120.
14.4	49.6	4488.9	600.0	-2.8	-13.1	299.1	9.3	7.8	-4.4	313.4	320.6	2.3	43.3	3.3	119.
15.6	53.5	4865.9	575.0	-6.9	-18.7	304.9	9.5	8.3	-4.6	313.9	319.9	2.2	51.7	4.4	119.
16.7	57.6	5264.0	550.0	-9.4	-14.2	297.0	11.9	10.2	-4.7	313.9	319.7	1.9	51.4	5.1	119.
17.9	62.0	5683.9	525.0	-7.9	-21.5	290.1	12.4	12.4	-2.2	315.5	320.7	1.3	37.8	6.0	117.
19.2	66.7	6127.5	500.0	-12.4	-15.1	292.0	13.2	13.2	-0.5	317.9	325.3	2.4	80.7	6.9	114.
20.7	71.7	6597.9	475.0	-19.3	-17.6	285.6	12.5	12.5	1.0	319.6	325.3	2.0	83.6	7.7	111.
21.6	74.5	6838.0	463.0	-19.1	-19.1	283.4	13.7	13.6	1.6	320.4	326.2	1.8	88.3	8.6	108.
22.0	78.1	7097.5	450.0	-21.7	-24.3	284.5	15.2	15.2	0.4	321.2	324.3	0.9	57.6	9.7	106.
24.1	82.7	7377.5	437.0	-24.5	-41.0	271.7	15.2	15.2	-0.3	323.0	324.0	0.3	20.1	10.3	104.
25.8	87.4	7678.5	425.0	-23.3	-43.2	269.4	15.3	15.3	0.2	324.2	325.0	0.2	22.2	12.2	102.
27.5	91.3	8426.9	350.0	-27.5	-46.2	261.7	13.4	13.3	1.9	325.0	325.6	0.2	23.8	13.5	101.
29.3	96.4	8813.5	325.0	-36.9	-48.4	247.1	11.4	10.5	4.4	326.9	326.4	0.1	26.7	14.7	99.
31.0	93.9	9201.9	300.0	-40.4	99.9	999.9	12.7	8.7	8.6	327.9	999.9	99.9	999.9	15.7	98.
33.1	94.3	10079.4	275.0	-44.7	99.9	210.0	10.7	5.7	9.3	330.4	999.9	99.9	999.9	16.4	91.
35.1	94.8	10913.7	250.0	-48.7	99.9	999.9	9.5	6.3	7.3	334.3	999.9	99.9	999.9	17.1	88.
37.2	101.8	11809.9	225.0	-50.8	99.9	999.9	9.7	7.2	6.4	340.7	999.9	99.9	999.9	17.9	85.
39.3	109.9	12758.9	200.0	-55.5	99.9	271.2	13.8	13.8	-0.3	343.7	999.9	99.9	999.9	19.3	84.
41.5	114.4	13748.9	175.0	-59.9	99.9	296.7	12.3	11.1	-5.5	351.2	999.9	99.9	999.9	21.0	86.
43.8	120.8	14785.9	150.0	-62.6	99.9	291.7	13.7	13.4	-2.8	362.2	999.9	99.9	999.9	21.9	87.
46.4	127.3	15878.9	125.0	-63.0	99.9	297.5	12.2	10.9	-5.6	370.8	999.9	99.9	999.9	23.3	88.
47.5	134.7	16689.9	110.0	-62.6	99.9	304.8	6.1	4.8	-3.8	404.8	999.9	99.9	999.9	24.1	90.
51.5	141.7	18104.9	75.0	-65.7	99.9	290.0	4.7	4.4	-1.6	+35.2	999.9	99.9	999.9	24.7	92.
54.3	144.7	20710.1	50.0	-59.7	99.9	321.5	5.0	3.7	-4.7	502.9	999.9	99.9	999.9	24.1	92.
70.5	146.0	25149.9	25.0	-50.0	99.9	122.4	5.0	-4.3	2.7	640.9	999.9	99.9	999.9	19.3	91.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 2**
VICTORIA, TEXAS

27 MAY 1977
1700 GMT

160 13. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	5.4	[illegible].0	1007.4	29.1	20.5	170.0	5.1	-0.9	5.0	301.6	342.4	15.3	60.0	0.0	0.
0.2	6.0	98.9	1000.0	29.0	21.6	999.9	99.9	99.9	99.9	302.2	346.1	16.5	64.2	999.9	999.
0.4	9.0	[illegible].4	975.0	26.8	20.4	999.9	999.9	99.9	99.9	302.1	344.0	15.7	68.2	999.9	999.
1.0	10.1	856.0	951.0	24.5	19.9	999.9	999.9	99.9	99.9	302.1	343.6	15.6	75.2	999.9	999.
2.0	12.0	797.7	925.0	22.1	19.0	999.9	999.9	99.9	99.9	301.9	342.4	15.2	82.5	999.9	999.
3.7	14.2	1078.0	900.0	19.7	19.1	163.2	6.5	-1.9	6.2	301.9	341.2	14.9	90.4	1.0	356.
4.2	14.1	1248.8	875.0	16.7	14.1	163.5	7.4	-2.1	7.1	300.8	332.3	11.8	87.4	1.4	352.
5.9	19.7	1514.2	850.0	17.7	4.0	163.0	6.6	-1.4	6.5	304.7	321.9	8.1	60.5	1.9	350.
6.3	20.5	1771.4	825.0	17.4	-2.3	188.4	4.2	0.5	4.1	307.2	318.7	3.9	25.7	2.2	350.
7.3	22.4	2033.4	800.0	16.7	-12.5	229.5	4.3	2.9	2.7	308.9	315.3	2.1	14.2	2.4	353.
8.3	25.0	2299.7	775.0	17.1	-14.2	239.9	4.4	3.8	2.7	312.2	316.0	1.2	7.4	2.5	358.
9.7	27.2	2581.7	750.0	15.9	-17.3	253.7	5.9	5.7	1.2	313.3	316.1	1.3	8.7	2.6	4.
10.3	29.6	2868.0	725.0	14.0	-14.8	265.3	7.3	7.3	0.6	314.8	320.2	1.7	12.5	2.8	13.
11.4	32.1	3162.4	700.0	11.6	-2.0	270.7	6.5	6.5	-0.0	315.7	329.4	4.7	38.6	2.9	22.
12.9	34.9	3465.2	675.0	9.1	-2.7	281.7	5.1	6.0	-1.2	315.8	329.8	4.7	43.5	3.1	29.
13.4	37.2	3778.5	650.0	6.3	-3.6	297.5	7.0	6.5	-2.7	316.1	329.5	4.4	48.1	3.2	37.
14.7	39.9	4095.7	625.0	3.6	-3.8	294.7	7.3	6.5	-3.3	316.6	330.6	4.6	58.6	3.3	45.
15.9	42.4	4426.8	600.0	0.6	-4.4	299.6	7.5	6.5	-3.7	316.9	330.8	4.6	69.0	3.5	53.
17.0	44.4	4767.2	575.0	-2.2	-7.2	299.7	9.1	7.9	-4.4	317.5	329.3	3.6	68.3	3.7	61.
19.7	46.6	5118.6	550.0	-5.6	-10.0	299.9	11.3	9.8	-5.6	317.4	327.5	3.3	71.2	4.2	71.
19.5	51.1	5491.9	525.0	-8.3	-15.4	290.6	11.3	10.6	-4.0	318.4	325.4	2.2	58.7	4.8	78.
20.9	54.3	5859.0	500.0	-10.9	-19.3	285.1	11.8	11.3	-3.3	319.8	325.2	1.7	46.9	5.6	82.
22.4	57.1	6259.1	475.0	-12.0	-57.8	305.5	13.5	11.0	-7.8	323.1	323.2	0.0	1.0	6.6	87.
23.9	60.6	6663.3	450.0	-15.1	-41.8	316.3	15.4	10.6	-11.1	324.3	325.2	0.2	6.7	7.6	94.
25.5	64.1	7093.3	425.0	-17.7	-61.2	317.1	15.7	10.7	-11.5	326.3	326.4	0.0	1.0	8.7	101.
27.0	67.5	7543.6	400.0	-21.6	-[illegible].7	316.6	15.7	10.9	-11.4	326.9	327.3	0.0	1.0	10.0	106.
29.7	71.0	8015.4	375.0	-25.6	-66.3	314.8	15.5	11.0	-10.9	327.7	327.8	0.0	1.0	11.3	110.
30.6	75.0	8512.3	350.0	-29.0	-66.1	313.9	16.5	11.[illegible]	-11.5	329.6	329.7	0.0	1.4	12.8	113.
32.2	79.0	9037.7	325.0	-33.2	-61.9	320.5	19.3	11.6	-16.1	330.9	331.0	0.0	2.8	14.5	116.
34.2	83.2	9599.9	300.0	-38.3	-65.3	323.9	24.1	14.2	-19.5	331.5	331.5	0.0	4.0	16.8	120.
35.2	87.6	10197.6	275.0	-42.2	99.9	327.2	25.8	14.0	-21.7	334.0	999.9	99.9	999.9	19.6	124.
34.5	92.1	10836.7	250.0	-47.4	99.9	322.1	23.6	14.5	-19.6	335.5	999.9	99.9	999.9	22.9	127.
40.9	97.1	11519.6	225.0	-52.2	99.9	301.3	24.1	20.6	-12.5	338.5	999.9	99.9	999.9	26.0	128.
41.6	102.9	12270.5	200.0	-55.7	99.9	292.6	31.4	29.0	-12.1	344.6	999.9	99.9	999.9	30.6	126.
44.5	108.4	13111.2	175.0	-57.5	99.9	299.1	25.1	21.9	-12.2	355.1	999.9	99.9	999.9	35.5	124.
49.4	115.1	14079.3	150.0	-62.9	99.9	304.2	20.7	16.7	-12.2	361.3	999.9	99.9	999.9	39.7	124.
53.3	122.7	15188.7	125.0	-66.4	99.9	303.0	18.1	15.2	-9.8	374.8	999.9	99.9	999.9	43.9	124.
57.9	131.0	16535.7	100.0	-67.6	99.9	314.6	10.8	7.7	-7.6	397.1	999.9	99.9	999.9	48.3	124.
64.5	140.9	18271.0	75.0	-66.2	99.9	40.5	4.2	-2.7	-3.2	434.1	999.9	99.9	999.9	52.4	125.
71.2	149.5	20245.4	50.0	-59.3	99.9	97.5	6.1	-6.0	0.9	509.9	999.9	99.9	999.9	48.8	127.
83.4	149.7	25246.2	25.0	-49.0	99.9	999.9	999.9	99.9	99.9	644.1	999.9	99.9	999.9	45.3	127.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

C-2

STATION NO. 360
STEPHENVILLE, TEXAS

27 MAY 1977
1700 GMT

147 19. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.8	399.0	964.1	26.7	14.8	180.0	4.6	0.0	4.6	303.0	333.0	11.7	48.0	0.0	0.
99.9	99.9	99.0	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.0	99.9	99.0	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.	999.9	999.9	999.
0.3	9.8	529.1	950.0	25.9	13.9	180.1	4.4	0.0	4.6	303.4	332.2	10.6	47.8	0.1	14.
1.4	11.9	747.0	925.0	23.5	13.4	189.3	7.5	1.2	7.4	303.3	332.1	10.6	53.4	0.4	23.
2.4	14.0	1001.5	900.0	21.2	12.1	185.6	6.9	0.7	6.9	304.3	330.5	9.9	56.1	0.9	5.
3.2	15.0	1244.8	875.0	19.3	11.3	203.4	7.0	2.4	6.4	303.8	330.3	9.7	59.7	1.2	9.
4.1	18.3	1493.6	850.0	17.6	10.7	215.9	7.0	4.1	5.7	304.6	331.0	9.6	64.2	1.6	14.
5.1	20.5	1749.0	825.0	16.2	10.7	209.5	8.1	4.0	7.0	305.7	333.0	9.9	69.8	1.9	19.
6.0	22.8	2010.7	800.0	14.3	0.6	189.7	8.4	1.4	8.3	304.5	323.4	5.2	35.8	2.4	16.
7.1	25.2	2280.5	775.0	15.3	0.4	184.6	8.0	0.6	7.9	310.3	328.1	5.1	36.1	2.9	16.
8.2	27.4	2557.7	750.0	13.8	-0.9	194.1	7.0	1.7	6.8	311.6	327.7	4.8	36.2	3.5	15.
9.4	29.9	2842.8	725.0	11.9	-2.6	213.5	6.4	3.5	5.4	312.5	325.4	4.4	36.3	3.9	16.
10.5	32.4	3135.3	700.0	9.7	-2.3	237.9	8.2	6.9	4.4	313.3	327.0	4.6	42.5	4.3	19.
11.7	35.0	3436.1	675.0	7.3	-0.1	254.6	8.6	8.3	2.3	313.8	330.4	5.6	55.2	4.7	24.
12.9	37.4	3745.5	650.0	4.1	-1.0	267.7	9.4	9.2	2.0	313.6	329.8	5.5	65.2	5.1	30.
14.1	40.2	4065.5	625.0	1.4	-3.6	259.4	9.9	9.7	2.0	314.1	328.1	4.7	69.4	5.6	35.
15.4	42.5	4391.1	600.0	-1.2	-8.6	260.4	11.6	11.4	1.9	314.8	324.9	3.3	56.8	6.2	40.
16.7	45.4	4728.0	575.0	-4.1	-10.8	265.4	14.5	14.5	1.2	315.2	324.2	2.9	56.3	7.0	46.
18.1	48.4	5077.9	550.0	-6.9	-14.0	270.1	16.2	16.2	-0.0	315.9	323.3	2.4	56.9	8.1	52.
19.5	51.4	5439.1	525.0	-8.9	-35.9	278.8	13.2	13.0	-2.0	317.7	318.9	0.3	6.2	9.1	58.
20.9	54.5	5815.4	500.0	-11.2	-36.5	295.5	13.9	12.5	-6.0	319.4	320.5	0.3	10.2	9.8	62.
22.4	57.4	6207.3	475.0	-13.9	-38.3	295.6	19.7	17.8	-8.5	320.8	321.8	0.3	10.5	10.7	69.
24.0	60.8	6614.7	450.0	-15.4	-37.9	294.7	24.1	21.9	-10.1	323.9	326.1	0.3	12.4	12.2	76.
25.7	64.1	7045.8	425.0	-18.1	-39.6	291.0	23.2	21.6	-8.3	325.8	326.8	0.3	13.0	14.2	82.
27.7	67.4	7495.0	400.0	-22.1	-44.1	293.0	19.6	18.1	-7.7	326.2	326.9	0.2	11.4	16.2	86.
29.2	71.0	7965.7	375.0	-25.9	-46.3	301.1	21.2	18.2	-11.0	327.4	328.0	0.2	12.6	18.1	89.
31.2	74.8	8460.8	350.0	-30.6	-49.1	306.3	22.7	18.3	-13.4	327.5	328.0	0.1	14.2	20.3	94.
33.1	78.8	8983.8	325.0	-34.0	-51.7	315.9	24.8	17.3	-17.8	329.6	330.2	0.1	14.6	22.5	98.
35.1	83.0	9539.0	300.0	-39.0	-56.9	317.8	29.0	18.8	-22.0	330.5	999.9	99.9	999.9	25.0	102.
37.2	87.0	10130.1	275.0	-43.3	-99.9	314.3	31.4	21.7	-22.7	332.6	999.9	99.9	999.9	28.3	107.
39.8	91.8	10764.9	250.0	-48.1	-99.9	318.3	31.6	21.0	-23.6	334.5	999.9	99.9	999.9	32.5	111.
42.3	96.4	11441.6	225.0	-53.4	-99.9	311.5	24.5	18.4	-16.2	336.7	999.9	99.9	999.9	36.4	114.
45.1	101.8	12200.9	200.0	-57.9	-99.9	294.0	23.5	21.5	-9.5	341.1	999.9	99.9	999.9	40.1	115.
48.5	107.8	13041.5	175.0	-59.4	-99.9	290.9	27.7	25.9	-9.9	351.6	999.9	99.9	999.9	45.8	114.
52.0	113.8	14009.1	150.0	-61.4	-99.9	295.9	21.8	19.6	-9.5	364.4	999.9	99.9	999.9	51.1	114.
56.0	120.7	15136.4	125.0	-64.3	-99.9	304.9	14.4	11.5	-8.6	378.5	999.9	99.9	999.9	55.3	115.
61.2	129.3	16495.2	100.0	-65.1	-99.9	291.6	8.7	8.0	-3.2	401.9	999.9	99.9	999.9	58.7	115.
67.3	139.3	18268.7	75.0	-64.9	99.9	10.8	4.2	-0.8	-4.2	436.9	999.9	99.9	999.9	59.7	115.
76.2	144.3	20747.1	50.0	-56.5	99.9	82.9	4.8	-4.8	-0.6	509.5	999.9	99.9	999.9	58.3	116.
89.7	152.3	25270.4	25.0	-49.5	99.9	80.6	3.2	-3.2	-0.5	642.5	999.9	99.9	999.9	54.1	118.

* RV SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* RV TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** RV SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 241
DEL RIO, TEXAS

27 MAY 1977
1700 GMT

162 10. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.9	314.0	973.5	23.8	20.5	120.0	6.2	-5.4	3.1	299.2	341.0	15.9	82.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	979.2	99.9	99.9	99.9	99.3	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.7	10.3	429.7	950.0	21.7	20.6	131.2	7.9	-5.9	5.1	299.2	342.0	16.3	93.2	0.3	310.
1.7	12.4	740.3	925.0	19.5	18.8	143.8	5.3	-3.1	4.3	299.3	338.7	15.8	92.4	0.7	313.
.7	14.5	997.2	900.0	19.3	18.4	173.3	4.2	-0.5	4.2	301.4	341.4	15.1	94.9	0.9	319.
3.4	16.6	1240.4	875.0	18.7	17.8	180.2	3.9	0.0	3.9	303.2	343.2	14.9	94.7	1.1	326.
4.5	18.8	1499.7	850.0	17.7	16.7	184.4	4.7	0.4	4.7	304.7	343.3	14.3	93.8	1.3	328.
5.4	21.0	1744.3	825.0	16.8	12.8	239.7	3.0	2.6	1.5	304.7	339.8	11.2	88.3	1.5	338.
6.2	23.4	2011.7	800.0	16.0	11.4	305.9	4.8	3.9	-2.8	310.4	340.3	10.7	82.8	1.4	348.
7.3	25.8	2282.4	775.0	15.7	9.2	313.6	6.1	4.4	-4.2	310.7	337.8	9.6	88.3	1.1	352.
8.7	28.2	2560.9	750.0	14.4	7.7	310.7	6.1	4.6	-3.9	312.2	337.5	8.4	83.9	0.8	0.
9.6	30.5	2846.7	725.0	12.5	5.5	299.4	4.0	1.5	-2.0	313.2	338.9	7.9	82.1	0.7	35.
10.6	33.4	3141.1	700.0	11.7	-1.6	242.9	4.4	4.0	2.0	315.4	330.3	6.0	60.7	0.8	46.
11.6	35.9	3444.6	675.0	10.3	-7.9	231.8	7.3	5.8	4.5	317.2	326.9	3.1	36.8	1.2	47.
12.9	38.7	3757.3	650.0	7.5	-8.8	240.1	9.1	7.9	4.5	317.7	327.1	3.0	29.7	1.9	50.
14.1	41.7	4079.6	625.0	4.8	-9.9	243.9	10.4	9.3	4.6	317.7	326.9	2.9	33.5	2.5	54.
15.4	44.1	4409.5	600.0	1.6	-10.2	245.2	11.4	10.3	4.8	319.0	327.1	2.9	40.9	3.4	56.
16.4	47.1	4750.4	575.0	-1.9	-10.6	249.4	12.7	11.9	4.5	317.9	326.9	3.0	51.2	4.3	59.
17.0	50.2	5102.5	550.0	-4.8	-10.9	256.3	14.4	13.9	3.4	319.4	327.8	3.0	62.1	5.3	61.
19.5	53.0	5467.2	525.0	-6.6	-26.3	275.4	12.7	12.6	-1.2	320.5	323.4	0.8	19.0	6.6	66.
20.9	56.1	5849.1	500.0	-7.3	-38.1	293.4	10.9	10.0	-4.3	324.1	325.2	0.3	6.4	7.3	70.
22.3	59.4	6246.5	475.0	-6.4	-36.3	305.6	11.8	9.6	-6.9	326.4	327.7	0.4	9.0	7.9	78.
23.8	62.9	6662.2	450.0	-12.4	-34.4	314.1	13.4	9.6	-9.3	327.7	329.1	0.4	11.4	8.7	82.
25.5	66.3	7096.8	425.0	-15.7	-38.6	314.1	14.5	10.6	-10.3	329.9	330.0	0.3	11.6	9.6	86.
27.1	70.0	7550.9	400.0	-19.7	-41.5	312.7	15.1	11.1	-10.3	329.4	330.3	0.2	12.3	10.6	90.
29.2	73.7	8025.5	375.0	-23.5	-42.7	312.6	16.9	12.4	-11.4	330.5	331.4	0.2	18.1	12.2	100.
30.8	77.7	8525.8	350.0	-27.5	-44.0	313.6	17.3	12.5	-11.9	331.7	332.5	0.2	18.9	13.8	104.
32.8	81.7	9056.4	325.0	-31.3	-47.0	316.1	19.3	13.4	-13.9	333.6	334.2	0.2	19.3	15.9	108.
34.7	86.0	9619.5	300.0	-35.8	-51.0	313.3	20.2	15.2	-14.4	334.9	335.3	0.1	16.2	17.7	111.
36.9	90.4	10217.7	275.0	-40.9	99.9	305.6	19.4	15.8	-11.3	335.0	999.9	99.9	999.9	20.2	114.
39.1	95.7	10856.5	250.0	-46.2	99.9	294.3	17.4	14.9	-7.2	337.5	999.9	99.9	999.9	22.6	116.
41.5	100.8	11544.6	225.0	-51.5	99.9	277.1	17.3	17.1	-2.1	339.7	999.9	99.9	999.9	24.9	114.
44.1	106.5	12284.0	200.0	-55.3	99.9	274.2	22.2	22.1	-2.0	345.2	999.9	99.9	999.9	27.8	111.
46.8	112.7	13180.4	175.0	-57.2	99.9	285.5	25.3	24.9	-6.9	358.8	999.9	99.9	999.9	31.6	110.
50.0	119.3	14119.2	150.0	-60.5	99.9	288.1	24.1	23.9	-7.8	365.9	999.9	99.9	999.9	36.6	110.
53.5	127.0	15249.5	125.0	-64.4	99.9	288.4	18.6	17.9	-4.9	377.7	999.9	99.9	999.9	40.8	110.
57.4	135.5	16491.0	100.0	-67.9	99.9	311.0	11.1	8.4	-7.3	396.5	999.9	99.9	999.9	45.1	110.
62.7	144.0	19735.2	75.0	-64.2	99.9	3.7	2.4	-0.2	-2.4	434.3	999.9	99.9	999.9	45.7	110.
70.1	153.7	20862.3	50.0	-57.6	99.9	92.7	5.2	-5.2	0.2	507.8	999.9	99.9	999.9	44.5	111.
82.1	163.5	25321.9	25.0	-47.5	99.9	130.9	5.2	-3.9	3.4	648.6	999.9	99.9	999.9	41.2	112.

* RV SPEED MEANS ELEVATION ANGLE BETWEEN 5 AND 10 DEG
* RV TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** RV SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 265
MIDLAND, TEXAS

27 MAY 1977
1700 GMT

141 22. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.4	877.0	934.9	32.4	6.9	265.0	5.2	5.2	0.5	314.4	334.6	6.9	20.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	15.1	961.2	901.0	31.2	99.9	999.9	99.9	99.9	99.9	313.6	999.9	99.9	999.9	999.9	999.
1.1	17.2	1011.6	875.0	27.9	6.7	999.9	999.9	99.9	99.9	312.9	331.9	6.6	24.3	999.9	999.
2.1	19.5	1067.9	850.0	25.5	5.1	999.9	999.9	99.9	99.9	312.9	331.7	6.5	26.0	0.0	90.
3.2	21.7	1122.0	825.0	22.8	4.0	264.3	6.5	6.5	0.4	312.2	330.2	6.2	30.1	1.5	86.
5.0	23.9	1178.9	800.0	19.9	3.0	272.7	6.9	6.9	-0.3	312.3	329.7	6.0	32.6	2.0	87.
6.2	26.1	1236.4	775.0	17.2	2.3	273.5	7.5	7.6	0.9	312.3	329.5	5.9	36.9	2.5	88.
7.1	28.0	1291.8	750.0	14.6	2.2	270.1	7.3	6.6	2.4	312.4	329.9	6.0	43.1	3.1	85.
8.3	31.6	1393.1	700.0	11.5	1.4	264.4	5.6	5.1	2.4	312.1	329.2	5.9	46.9	3.5	83.
9.3	34.3	1469.1	650.0	4.7	0.6	263.9	7.3	6.3	3.1	312.1	328.9	5.8	57.1	3.9	81.
10.1	36.7	1539.0	600.0	0.4	-1.4	261.3	8.5	8.4	4.5	312.4	327.9	5.1	57.2	4.4	79.
11.1	39.3	1609.0	550.0	4.9	-5.6	253.6	14.3	13.3	6.7	313.5	325.4	3.6	43.2	5.3	76.
12.0	42.0	1680.4	500.0	-7.6	-11.0	261.1	17.0	16.0	5.5	315.5	323.6	2.6	25.7	6.6	74.
13.1	44.8	1753.1	450.0	1.0	-17.8	259.0	17.3	17.0	3.1	317.1	322.4	1.6	23.0	7.8	74.
14.2	47.8	1828.7	400.0	-1.0	-23.7	259.8	16.4	16.2	2.9	311.8	322.2	1.0	16.5	8.9	75.
15.0	50.6	1899.5	350.0	-2.8	-28.2	259.3	16.1	15.8	3.1	320.9	323.2	0.7	12.0	10.0	76.
15.1	53.5	1968.6	300.0	-4.8	-29.8	260.7	16.5	16.5	0.1	322.7	324.8	0.6	11.8	11.2	76.
15.4	56.5	2039.7	250.0	-7.7	-31.6	259.2	15.9	15.9	-0.9	323.7	325.6	0.5	12.6	12.5	78.
21.0	59.7	2113.7	200.0	-10.9	-34.1	259.5	16.2	16.1	-1.7	324.6	327.3	0.4	22.5	13.9	80.
22.5	63.0	2189.9	150.0	-13.9	-30.7	243.2	17.6	17.2	-3.7	326.9	328.8	0.4	21.4	15.3	82.
24.0	66.3	2268.7	100.0	-17.1	-35.2	260.9	20.2	19.6	-5.5	327.1	328.6	0.4	18.8	16.9	84.
25.6	69.3	2345.7	100.0	-20.4	-34.7	280.6	19.9	19.7	-6.7	327.9	329.7	0.5	27.4	18.6	86.
27.1	72.2	2419.0	375.0	-23.0	-35.5	290.2	18.9	17.9	-6.5	328.5	330.2	0.5	37.4	20.2	88.
28.7	75.1	2494.8	350.0	-25.0	-35.3	284.0	20.1	19.5	-4.5	329.7	331.6	0.5	53.5	22.1	90.
30.4	80.7	2613.7	300.0	-27.0	-37.5	281.5	20.7	20.3	-4.2	331.2	332.8	0.5	63.8	24.0	91.
32.2	84.3	2686.9	300.0	-27.8	-42.9	283.6	21.8	24.1	-5.8	332.1	333.2	0.3	59.2	26.7	92.
34.5	88.0	10163.7	275.0	-30.4	99.9	283.4	25.2	23.7	-8.4	334.3	999.9	99.9	999.9	29.9	94.
36.7	93.6	10821.0	250.0	-47.7	99.9	270.9	23.3	21.8	-8.3	335.1	999.9	99.9	999.9	32.9	95.
39.0	98.9	11401.7	225.0	-51.5	99.9	287.1	17.4	16.7	-5.1	339.7	999.9	99.9	999.9	35.8	96.
41.5	107.9	12247.5	200.0	-57.5	99.9	281.9	20.6	20.2	-4.2	343.3	999.9	99.9	999.9	38.5	97.
44.1	108.8	12986.9	175.0	-60.0	99.9	277.9	20.4	20.2	-2.5	351.0	999.9	99.9	999.9	41.5	97.
47.2	114.7	14069.7	150.0	-59.7	99.9	280.3	23.4	23.1	-4.1	367.2	999.9	99.9	999.9	46.1	97.
50.7	121.3	15174.8	125.0	-64.6	99.9	282.4	14.0	14.5	-4.1	378.0	999.9	99.9	999.9	50.1	97.
54.5	128.7	16331.0	100.0	-61.8	99.9	277.8	6.1	6.0	-0.8	398.6	999.9	99.9	999.9	53.1	98.
59.0	136.7	17574.4	75.0	-46.5	99.9	164.0	4.5	-1.2	4.4	435.7	999.9	99.9	999.9	54.0	99.
67.5	148.7	20703.7	50.0	-55.0	99.9	108.3	4.8	-4.6	1.4	504.6	999.9	99.9	999.9	52.4	97.
89.5	153.7	25263.5	25.0	-49.5	99.9	999.9	99.9	99.9	99.9	662.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 327
NASHVILLE, TENNESSEE

27 MAY 1977
1800 GMT

162 17. 0

TEMP MIN.	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.0	190.0	990.3	28.2	17.4	140.0	3.2	0.0	3.2	307.2	336.5	12.8	62.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	9.5	317.9	975.0	25.6	16.7	229.2	2.7	2.0	1.8	300.9	334.0	12.4	98.0	0.1	66.
0.5	11.7	544.5	950.0	22.9	15.4	225.5	2.3	1.6	1.6	300.4	331.9	11.7	82.9	0.2	83.
1.5	14.2	777.6	925.0	20.1	14.7	202.6	1.6	0.6	1.5	299.4	330.6	11.5	71.4	0.2	92.
2.2	16.6	1013.5	900.0	17.4	14.1	143.9	0.9	-0.2	0.8	299.5	329.9	11.4	81.1	0.3	46.
3.1	19.2	1254.0	875.0	15.3	12.5	112.6	1.9	-1.7	0.7	299.7	327.9	10.5	82.2	0.2	36.
3.8	21.5	1499.7	850.0	13.9	11.5	100.1	3.0	-2.8	1.0	300.6	327.9	10.1	85.9	0.3	8.
4.9	24.1	1751.0	825.0	11.5	10.1	99.5	4.6	-4.5	0.8	300.7	326.4	9.5	91.2	0.4	226.
5.8	25.4	2009.1	800.0	9.9	8.0	81.9	5.3	-5.3	-0.5	301.6	324.8	8.5	88.9	0.6	305.
7.0	29.2	2271.4	775.0	8.0	3.7	78.1	8.3	-8.1	-1.7	302.4	320.4	6.8	74.1	1.0	293.
9.2	33.1	2542.5	750.0	8.3	-8.2	82.9	7.5	-7.4	-0.9	305.6	313.8	2.8	30.1	1.5	276.
9.2	38.9	2821.9	725.0	7.8	-9.2	89.4	5.8	-5.8	-0.1	309.0	316.0	2.6	28.9	1.9	272.
10.2	37.5	3109.9	700.0	5.3	-8.5	102.3	4.4	-4.3	0.9	309.3	317.9	3.9	36.4	2.2	278.
11.2	40.4	3406.0	675.0	3.2	-7.1	108.8	5.0	-4.7	1.6	309.2	319.2	5.3	46.8	2.5	276.
12.2	43.3	3710.7	650.0	1.1	-13.2	104.1	6.9	-6.7	1.7	310.3	317.9	2.5	40.2	2.6	276.
13.7	46.4	4024.9	625.0	1.5	-27.3	94.6	9.1	-9.0	0.7	314.2	316.4	0.6	9.5	3.6	276.
15.1	49.5	4354.9	600.0	-0.1	-28.3	85.2	9.6	-8.6	-0.7	316.0	318.1	0.6	9.7	4.1	275.
16.3	52.4	4694.3	575.0	-1.6	-29.4	73.6	8.2	-7.9	-2.3	318.1	320.1	0.6	9.8	4.9	273.
17.6	55.6	5045.2	550.0	-4.1	-29.9	66.4	6.7	-6.2	-2.7	319.0	321.1	0.6	12.6	5.5	271.
19.1	58.9	5410.4	525.0	-7.6	-30.3	74.8	6.7	-6.5	-1.8	319.3	321.3	0.6	14.2	6.0	268.
20.5	62.3	5787.9	500.0	-10.8	-32.4	109.0	6.2	-5.8	2.0	319.9	321.6	0.5	14.9	6.5	268.
21.5	65.7	6190.8	475.0	-12.4	-36.2	120.9	8.4	-7.2	4.2	322.7	324.2	0.4	14.1	7.0	271.
23.6	69.3	6592.0	450.0	-14.8	-36.1	113.9	7.3	-6.7	3.0	324.6	326.0	0.4	14.3	7.6	274.
25.2	73.0	7021.4	425.0	-18.2	-38.6	127.4	5.8	-4.6	3.5	325.7	326.8	0.3	14.6	8.3	279.
27.0	77.0	7470.9	400.0	-22.1	-41.6	127.7	8.3	-6.6	5.1	329.3	327.2	0.2	14.6	8.9	278.
29.7	80.9	7941.7	375.0	-26.5	-44.8	126.8	9.6	-8.7	5.0	329.5	327.2	0.2	15.7	9.8	281.
30.7	85.1	8435.8	350.0	-30.6	-46.5	124.4	6.3	-5.2	3.6	327.6	328.2	0.2	19.1	10.5	283.
32.6	89.3	8956.1	325.0	-34.6	-44.3	111.5	3.9	-3.6	1.4	329.0	329.7	0.2	28.5	11.1	284.
34.6	94.3	9512.4	300.0	-38.9	-50.1	161.4	1.4	-0.5	1.3	330.5	331.0	0.1	26.2	11.3	284.
37.0	99.4	10103.6	275.0	-44.1	99.9	137.6	3.8	-2.8	2.2	331.1	999.9	99.9	999.9	11.5	285.
39.5	103.4	10734.5	250.0	-49.4	99.9	116.1	5.8	-3.4	1.7	332.6	999.9	99.9	999.9	12.0	285.
42.2	109.4	11417.3	225.0	-54.8	99.9	145.4	4.2	-2.4	3.4	334.6	999.9	99.9	999.9	12.6	287.
44.8	115.0	12140.9	200.0	-59.7	99.9	147.3	4.9	0.8	5.9	338.2	999.9	99.9	999.9	13.1	289.
47.9	121.7	12934.0	175.0	-65.1	99.9	238.1	5.5	4.6	3.1	342.3	999.9	99.9	999.9	12.8	293.
51.6	129.0	13893.4	150.0	-69.4	99.9	244.2	2.0	2.8	1.3	357.5	999.9	99.9	999.9	12.2	298.
55.9	135.3	15045.8	125.0	-69.2	99.9	17.4	4.5	-1.3	-4.3	342.8	999.9	99.9	999.9	11.8	294.
61.3	142.3	16431.8	100.0	-60.1	99.9	94.6	2.8	-2.8	0.2	411.4	999.9	99.9	999.9	11.7	290.
67.8	150.0	18206.0	75.0	-63.1	99.9	198.5	3.7	1.2	3.5	440.8	999.9	99.9	999.9	11.5	291.
76.4	158.8	20778.2	50.0	-56.6	99.9	79.9	9.3	-8.2	-1.3	510.2	999.9	99.9	999.9	18.8	287.
90.4	164.3	24159.7	25.0	-49.1	99.9	150.8	4.8	-2.4	4.2	643.1	999.9	99.9	999.9	17.7	283.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 340
LITTLE ROCK, ARKANSAS

27 MAY 1977
1700 GMT

163 19. 0

TIME MIN	CNTC*	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.0	172.0	991.5	28.4	20.4	350.0	1.0	0.2	-1.0	302.3	343.5	15.4	62.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	8.7	320.9	975.0	26.3	17.0	202.1	1.6	1.5	-0.6	301.6	335.5	12.6	56.7	0.1	165.
1.0	11.0	549.6	950.0	24.1	16.3	300.9	1.1	0.9	-0.6	301.6	334.9	12.4	61.7	0.1	137.
1.9	13.6	792.4	925.0	21.5	15.5	310.6	0.9	0.7	-0.6	301.3	333.8	12.1	68.5	0.1	140.
2.6	16.0	1019.4	900.0	19.2	15.3	331.6	0.7	0.3	-0.6	301.3	334.2	12.3	78.2	0.2	138.
3.4	18.7	1261.8	875.0	17.4	11.7	141.4	0.9	-0.7	0.6	301.9	329.2	10.1	69.9	0.1	153.
4.4	21.2	1509.3	850.0	16.5	9.3	351.2	0.9	0.1	-0.9	303.5	327.5	8.7	62.0	0.1	141.
5.4	23.9	1762.9	825.0	14.9	7.2	42.4	1.6	-1.4	-0.7	304.3	325.9	7.7	56.6	0.1	172.
6.3	26.5	2022.9	800.0	13.7	1.2	353.7	3.2	0.2	-3.2	305.8	320.8	5.2	42.5	0.2	199.
7.2	29.4	2289.6	775.0	11.7	-0.7	320.3	4.1	2.6	-3.1	306.4	320.0	4.7	42.2	0.3	172.
8.3	32.3	2563.4	750.0	10.8	-10.0	301.5	5.0	5.1	-3.2	308.4	315.6	2.4	22.1	0.6	151.
9.3	35.2	2844.9	725.0	9.1	-4.4	294.6	7.1	6.5	-3.0	309.5	320.8	3.4	38.3	1.0	138.
10.4	38.0	3134.5	700.0	6.6	-3.1	294.4	7.8	7.1	-3.2	309.9	322.7	4.4	50.0	1.4	130.
11.4	40.9	3432.3	675.0	4.5	-2.9	299.9	7.2	6.2	-3.6	310.7	324.2	4.5	58.6	1.9	126.
12.5	44.0	3738.6	650.0	2.0	-4.9	311.3	5.1	4.6	-4.0	311.3	323.4	4.1	59.9	2.4	126.
13.6	47.3	4054.1	625.0	0.1	-8.6	337.0	3.7	1.9	-3.3	312.6	322.3	3.2	51.7	2.7	128.
14.9	50.4	4380.7	600.0	-1.0	-12.5	337.4	2.6	1.0	-2.4	314.9	322.5	2.4	41.4	2.8	130.
16.0	53.7	4719.4	575.0	-2.6	-9.0	291.3	3.5	3.2	-1.3	317.0	327.4	3.4	61.4	3.0	130.
17.3	56.9	5071.0	550.0	-4.9	-10.7	257.6	5.0	4.9	1.1	318.2	327.8	3.1	64.1	3.3	126.
18.6	60.4	5435.7	525.0	-7.1	-13.2	248.8	4.2	3.9	1.5	319.9	328.3	2.6	61.6	3.5	121.
19.9	64.1	5814.3	500.0	-10.2	-15.5	250.1	3.7	3.5	1.3	320.6	327.8	2.3	65.1	3.7	118.
21.3	67.6	6207.6	475.0	-13.2	-17.7	254.3	5.1	4.9	1.4	321.6	328.1	2.0	69.0	4.0	116.
22.9	71.3	6616.8	450.0	-16.7	-19.2	251.8	7.0	6.6	2.2	322.3	328.4	1.9	66.7	4.4	116.
24.2	75.3	7043.9	425.0	-19.9	-22.1	255.1	7.7	7.5	2.0	323.5	328.5	1.5	62.2	4.9	105.
25.8	79.5	7491.0	400.0	-23.2	-25.8	246.9	5.5	5.0	2.2	324.8	328.7	1.2	75.4	5.5	101.
27.4	83.5	7960.9	375.0	-26.3	-30.6	278.1	3.7	3.1	1.9	326.8	329.6	0.9	66.3	5.8	99.
29.1	87.7	8456.8	350.0	-29.1	-38.7	211.9	4.5	2.4	3.8	329.5	330.9	0.4	38.8	6.1	96.
31.0	92.3	8982.2	325.0	-33.4	-42.6	179.7	5.6	-0.0	5.6	330.7	331.7	0.3	38.8	6.2	91.
33.8	96.8	9539.1	300.0	-37.8	-46.1	159.8	6.6	-2.3	6.2	332.1	332.8	0.2	41.2	6.1	85.
36.9	101.8	10132.7	275.0	-42.5	99.9	164.7	7.0	-1.8	6.7	333.7	999.9	99.9	999.9	5.9	77.
37.1	107.2	10769.6	250.0	-47.3	99.9	171.2	7.6	-1.2	7.5	335.8	999.9	99.9	999.9	6.0	68.
39.5	112.6	11459.0	225.0	-53.0	99.9	175.6	8.6	-0.7	8.6	337.1	999.9	99.9	999.9	6.4	57.
42.3	118.5	12209.4	200.0	-57.5	99.9	204.0	7.1	2.9	6.5	341.8	999.9	99.9	999.9	7.3	46.
45.1	126.0	13044.5	175.0	-61.2	99.9	297.6	7.2	6.3	-3.3	348.9	999.9	99.9	999.9	8.0	50.
48.3	131.3	13995.4	150.0	-63.0	99.9	301.4	5.4	4.6	-2.8	361.5	999.9	99.9	999.9	8.0	61.
52.3	139.3	15127.8	125.0	-60.0	99.9	272.9	5.5	5.5	-0.3	386.3	999.9	99.9	999.9	8.9	64.
56.9	149.0	16504.4	100.0	-62.3	99.9	279.8	4.1	4.0	-0.7	407.3	999.9	99.9	999.9	10.0	69.
62.7	159.0	18275.8	75.0	-64.2	99.9	36.4	2.5	-1.5	-2.0	438.3	999.9	99.9	999.9	10.3	72.
70.5	159.5	20804.0	50.0	-67.2	99.9	82.3	3.7	-3.6	-0.5	509.8	999.9	99.9	999.9	9.3	71.
82.8	157.0	25246.8	25.0	-69.2	99.9	120.0	10.2	-8.8	5.1	643.1	999.9	99.9	999.9	4.7	51.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 346
MONETT, MISSOURI

27 MAY 1977
1700 GMT

ISI 11. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MM	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	10.3	439.8	961.1	26.1	17.5	150.0	2.6	0.5	2.6	302.7	338.2	13.2	59.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.2	11.2	540.3	950.0	24.2	15.8	225.3	6.0	4.2	4.2	301.8	334.1	12.0	59.6	0.2	40.
0.9	12.6	779.3	925.0	22.0	15.1	222.9	8.4	6.3	6.7	301.9	333.6	11.9	66.9	0.3	42.
1.3	15.5	1010.9	900.0	19.9	14.5	217.5	6.7	4.1	5.3	301.9	333.3	11.6	71.4	0.5	42.
1.8	18.7	1253.2	875.0	17.4	14.0	214.6	7.0	4.0	5.8	301.8	333.1	11.6	80.6	0.7	39.
2.5	20.7	1500.4	850.0	14.7	13.1	219.4	9.5	6.0	7.3	301.5	331.9	11.3	90.9	1.0	38.
3.1	23.1	1752.5	825.0	12.5	9.9	223.2	11.3	7.4	8.7	301.8	325.4	8.7	78.7	1.5	39.
4.1	25.5	2010.6	800.0	10.4	6.8	227.2	11.9	8.7	8.1	302.5	323.9	7.8	76.9	2.2	41.
5.0	28.0	2274.9	775.0	8.9	5.5	230.0	10.7	9.1	5.7	303.4	323.8	7.4	79.2	2.7	43.
5.9	30.7	2546.7	750.0	7.3	2.6	241.7	8.7	8.3	2.7	304.5	321.9	6.2	72.1	3.3	47.
7.0	33.3	2827.2	725.0	6.3	1.3	256.2	7.9	7.5	1.9	306.4	322.9	5.8	76.3	3.7	51.
7.8	35.9	3112.5	700.0	4.4	-0.2	259.2	8.6	8.5	1.6	307.4	322.9	5.4	71.9	4.1	53.
8.8	38.7	3407.9	675.0	2.0	-0.5	257.1	9.1	8.8	2.0	307.9	323.7	5.5	83.6	4.6	56.
9.7	41.2	3711.8	650.0	0.0	-2.8	242.6	8.4	7.7	2.9	309.0	323.0	4.8	81.0	5.0	58.
10.9	44.1	4025.4	625.0	-1.9	-5.7	218.4	5.6	3.1	4.5	310.3	322.2	4.0	74.8	5.3	57.
12.0	47.0	4350.0	600.0	-2.7	-4.8	190.8	9.1	1.7	9.0	313.0	326.3	4.5	88.2	5.7	55.
13.2	50.0	4687.2	575.0	-3.9	-8.9	172.9	12.2	-1.5	12.1	315.4	325.7	3.4	68.4	6.2	48.
14.5	52.9	5037.4	550.0	-5.8	-10.3	172.6	11.9	-1.5	11.8	317.2	327.0	3.2	70.6	6.8	41.
15.9	55.5	5400.8	525.0	-8.0	-11.6	179.1	9.5	-0.3	9.5	318.8	328.1	3.0	78.2	7.4	37.
17.1	59.0	5779.4	500.0	-9.0	-24.5	203.4	8.2	3.2	7.5	322.0	325.5	1.0	27.2	7.9	36.
19.4	62.3	6178.3	475.0	-12.4	-23.1	225.1	8.9	6.3	6.3	322.7	326.8	1.2	46.2	8.6	35.
20.0	65.6	6585.1	450.0	-15.6	-23.0	222.1	9.8	6.6	7.3	323.6	328.0	1.3	52.9	9.4	36.
21.5	69.0	7013.7	425.0	-19.0	-23.9	219.3	10.6	6.7	8.2	324.7	329.0	1.3	64.8	10.4	36.
23.0	72.3	7462.2	400.0	-22.3	-24.7	215.2	10.8	6.4	8.7	326.0	330.3	1.3	80.7	11.4	36.
24.6	76.0	7933.1	375.0	-25.9	-28.2	204.6	8.2	3.4	7.4	327.3	330.7	1.0	79.7	12.3	36.
26.4	80.0	8429.5	350.0	-29.6	-32.4	201.9	6.7	2.5	6.2	328.9	331.4	0.7	76.5	13.0	35.
28.0	83.9	8954.6	325.0	-33.8	-37.7	192.0	9.6	2.0	9.4	330.0	331.7	0.5	67.8	13.7	34.
29.9	87.9	9510.8	300.0	-38.1	-47.2	173.3	10.3	-1.2	10.2	331.7	332.3	0.2	37.5	14.7	32.
31.7	92.3	10109.9	275.0	-42.7	99.9	159.8	10.9	-3.7	10.2	333.4	999.9	99.9	999.9	15.5	29.
33.9	96.9	10740.9	250.0	-47.0	99.9	164.5	13.5	-3.6	13.0	336.1	999.9	99.9	999.9	16.6	25.
36.2	101.6	11430.3	225.0	-52.6	99.9	158.2	13.8	-5.1	12.8	337.9	999.9	99.9	999.9	18.1	21.
38.6	107.0	12181.6	200.0	-57.7	99.9	171.1	9.9	-1.5	9.8	341.4	999.9	99.9	999.9	19.4	17.
41.3	112.5	13015.8	175.0	-62.7	99.9	240.9	7.3	6.4	3.6	346.5	999.9	99.9	999.9	20.5	17.
44.3	119.5	13949.9	150.0	-55.3	99.9	200.4	3.9	1.4	3.6	357.9	999.9	99.9	999.9	20.9	19.
47.8	125.5	15104.1	125.0	-59.4	99.9	277.6	6.8	6.8	-0.9	387.4	999.9	99.9	999.9	21.8	21.
52.0	132.9	14462.8	100.0	-61.3	99.9	237.3	3.6	3.0	2.0	409.3	999.9	99.9	999.9	22.0	24.
57.3	140.3	18277.5	75.0	-62.9	99.9	111.9	2.1	-2.0	0.9	441.3	999.9	99.9	999.9	22.6	24.
64.3	149.3	20790.2	50.0	-59.1	99.9	90.4	6.3	-6.3	0.1	506.7	999.9	99.9	999.9	21.9	20.
74.9	159.7	25254.3	25.0	-61.5	99.9	999.9	999.9	99.9	99.9	636.9	999.9	99.9	999.9	20.6	8.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 353
OKLAHOMA CITY, OKLAHOMA

27 MAY 1977
1700 GMT

161 20. 0

TIME MIN.	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	0.7	392.0	964.9	21.7	14.6	140.0	4.2	-2.1	5.8	294.0	331.0	12.5	73.0	0.0	0.
99.9	99.9	99.9	1003.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	974.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.5	11.0	515.5	950.0	20.0	99.9	171.7	10.0	-1.4	9.9	297.5	999.9	99.9	999.9	0.2	350.
1.7	13.3	746.9	925.0	19.6	12.6	177.7	13.4	-0.5	13.3	299.4	326.2	10.0	63.7	0.5	355.
2.6	15.6	983.3	900.0	19.4	12.7	189.7	14.4	2.1	14.3	301.5	329.4	10.3	64.9	1.7	359.
3.6	18.0	1225.9	875.0	17.1	12.8	194.0	15.5	3.1	14.8	301.5	330.5	10.7	76.1	2.6	5.
4.3	20.4	1472.4	850.0	15.2	13.0	206.0	15.1	6.6	13.5	302.1	332.3	11.2	86.4	3.4	9.
5.4	22.8	1725.9	825.0	13.5	10.6	215.5	13.6	7.9	11.0	302.9	329.8	9.8	82.6	4.3	13.
6.4	25.2	1984.8	800.0	12.3	9.7	225.7	13.9	10.1	9.5	304.3	330.4	9.5	83.8	5.1	18.
7.5	27.9	2251.9	775.0	11.4	8.8	236.4	12.0	10.0	6.7	306.1	331.7	9.2	83.8	5.9	23.
8.7	30.4	2526.9	750.0	9.6	5.7	237.2	11.7	9.3	5.3	306.8	328.5	7.7	77.6	6.4	27.
9.5	33.0	2805.5	725.0	7.9	0.3	244.3	10.8	9.9	4.7	308.1	323.8	5.4	58.8	7.0	30.
10.9	35.7	3086.8	700.0	6.4	-4.1	257.7	9.3	9.1	2.0	309.6	321.5	4.0	46.7	7.6	33.
12.1	38.4	3372.0	675.0	3.9	-6.2	260.9	10.2	10.1	1.6	310.0	320.7	3.6	47.8	8.1	37.
13.2	41.2	3659.5	650.0	1.4	-9.1	266.8	10.8	10.5	2.5	310.6	320.2	3.2	49.0	8.6	40.
14.4	44.0	4011.8	625.0	-1.6	-9.9	255.0	11.6	11.5	3.1	310.6	319.3	2.9	53.2	9.3	43.
15.8	47.0	4275.4	600.0	-4.5	-13.1	258.5	13.4	13.1	2.7	310.8	317.9	2.3	51.1	10.1	46.
15.9	50.0	4569.5	575.0	-6.7	-20.6	264.9	15.6	15.5	1.4	312.2	316.3	1.3	32.0	10.9	49.
16.0	53.0	4876.2	550.0	-8.0	-25.8	264.6	17.2	17.1	1.6	314.6	317.1	0.8	20.3	11.9	52.
19.3	56.1	5195.5	525.0	-10.9	-29.2	270.5	17.3	17.3	-0.2	315.3	317.5	0.5	20.4	13.0	56.
20.7	59.4	5530.4	500.0	-11.5	-30.3	281.9	16.2	15.8	-3.3	319.0	321.0	0.6	19.3	14.2	60.
22.7	62.7	5881.8	475.0	-13.0	-32.1	287.3	15.9	14.1	-7.3	320.8	322.6	0.5	19.8	15.1	64.
23.9	66.1	6243.5	450.0	-17.4	-34.9	301.8	19.4	16.5	-10.2	321.3	322.9	0.4	20.0	16.0	69.
25.3	69.5	6625.6	425.0	-20.2	-37.2	296.9	20.7	18.5	-9.3	323.0	324.3	0.4	20.2	17.2	73.
27.1	73.3	7020.7	400.0	-24.7	-40.7	293.0	22.0	20.9	-7.2	322.9	323.9	0.3	20.7	19.0	78.
29.0	77.2	7436.0	375.0	-29.1	-43.5	287.1	21.6	20.5	-6.4	323.0	323.9	0.2	22.5	21.2	81.
31.0	81.2	7874.8	350.0	-32.8	-46.8	291.9	19.5	17.3	-6.9	324.5	325.1	0.2	22.9	23.4	84.
33.0	85.3	8307.2	325.0	-35.8	-49.7	297.8	17.8	15.7	-8.3	327.4	327.9	0.1	22.1	25.1	86.
35.0	89.4	8685.4	300.0	-36.4	99.9	293.2	22.0	20.2	-8.7	329.8	999.9	99.9	999.9	27.3	89.
37.1	94.2	10076.8	275.0	-44.0	99.9	287.0	20.2	19.2	-6.2	331.5	999.9	99.9	999.9	29.6	91.
38.9	99.0	10448.1	250.0	-48.7	99.9	284.7	17.1	17.0	1.6	333.7	999.9	99.9	999.9	31.7	91.
41.1	104.2	11336.7	225.0	-52.4	99.9	299.7	17.4	17.5	11.5	338.3	999.9	99.9	999.9	33.8	90.
43.4	109.9	12139.2	200.0	-57.0	99.9	293.4	22.2	21.2	6.3	341.1	999.9	99.9	999.9	35.2	88.
46.2	115.9	12949.2	175.0	-56.7	99.9	274.3	23.2	23.2	-1.8	356.3	999.9	99.9	999.9	37.6	88.
49.1	122.3	13814.0	150.0	-60.5	99.9	260.9	14.8	14.6	-2.8	355.9	999.9	99.9	999.9	40.2	89.
52.9	129.5	14852.1	125.0	-60.7	99.9	275.7	11.3	11.3	-1.1	395.1	999.9	99.9	999.9	43.3	89.
57.7	137.7	16437.4	100.0	-63.1	99.9	270.1	3.8	3.8	-0.0	405.9	999.9	99.9	999.9	45.0	89.
63.0	146.7	19196.7	75.0	-64.6	99.9	29.7	2.6	-1.3	-2.2	437.6	999.9	99.9	999.9	45.5	90.
70.9	155.5	20718.0	50.0	-55.0	99.9	92.8	5.9	-5.9	0.3	504.6	999.9	99.9	999.9	43.5	90.
94.1	167.8	25144.7	25.0	-50.5	99.9	102.3	8.5	-8.3	1.8	639.6	999.9	99.9	999.9	38.1	90.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 363
AMARILLO, TEXAS

27 MAY 1977
1700 GMT

155 9. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.3	1094.0	885.3	23.3	12.9	230.0	5.3	4.1	3.4	307.0	336.4	10.7	82.0	0.0	0.
99.0	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	900.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
2.1	14.7	1095.4	875.0	19.9	8.6	231.5	4.1	5.5	3.0	304.5	326.8	8.1	48.0	0.2	47.
1.2	14.5	1149.0	850.0	19.7	9.5	249.7	5.0	5.3	2.0	306.9	331.6	8.9	51.8	0.4	57.
2.1	23.4	1202.5	825.0	17.1	9.3	265.7	4.5	4.4	1.1	304.9	330.4	8.4	55.4	0.7	64.
3.1	22.3	1256.4	800.0	16.4	-1.3	247.4	5.3	4.5	2.2	308.5	321.6	4.5	30.4	0.9	66.
4.2	25.3	1234.1	775.0	14.7	-2.3	236.7	5.5	4.6	3.0	309.7	322.0	4.2	30.8	1.3	64.
5.2	27.5	1359.0	750.0	12.1	-3.7	233.4	5.5	4.3	3.3	309.8	321.2	3.9	32.8	1.6	62.
6.2	30.1	1383.5	725.0	9.0	-4.4	229.3	5.7	5.6	3.4	310.9	321.6	3.8	36.2	2.0	61.
7.3	33.5	1408.7	700.0	7.4	-6.5	240.9	5.5	4.1	4.6	310.7	320.5	3.3	35.5	2.5	61.
8.3	35.7	1434.8	675.0	4.7	-8.7	238.7	11.3	9.2	6.0	310.9	319.8	2.9	37.2	3.2	60.
9.4	37.7	1461.1	650.0	2.2	-10.6	231.5	12.4	9.7	7.7	311.4	319.2	2.6	37.1	4.0	59.
10.5	40.3	1488.1	625.0	1.2	-15.8	224.8	13.3	10.0	8.8	313.5	318.4	1.5	21.8	4.9	57.
11.5	43.1	1515.6	600.0	-1.1	-24.7	220.2	13.7	10.5	8.9	314.6	317.0	0.7	12.7	5.9	56.
12.7	45.3	1543.5	575.0	-3.3	-28.2	218.3	15.3	11.5	9.3	316.1	317.3	0.6	12.5	7.1	55.
13.7	47.3	1571.9	550.0	-5.8	-33.1	219.5	15.8	11.7	9.8	317.3	318.7	0.4	9.3	8.3	57.
14.9	51.3	1600.8	525.0	-7.3	-30.7	220.9	15.4	11.4	2.5	319.5	321.5	0.5	13.4	9.6	59.
17.0	53.1	1630.3	500.0	-10.5	-32.3	222.2	20.2	20.2	-0.8	320.2	322.0	0.5	14.7	11.0	63.
18.1	54.7	1660.4	475.0	-13.4	-33.0	222.1	24.5	24.5	-0.9	322.4	324.2	0.5	16.1	12.8	68.
19.5	61.6	1691.3	450.0	-15.4	-35.3	220.2	26.3	26.3	-0.1	323.4	325.4	0.4	16.2	14.8	71.
20.1	64.1	1722.8	425.0	-19.2	-36.1	221.7	25.1	25.0	-1.6	324.4	325.8	0.4	20.7	17.0	74.
21.8	64.7	1755.0	400.0	-22.6	-37.8	222.5	27.5	27.5	-1.2	325.7	327.0	0.4	23.4	19.5	76.
23.5	72.3	1788.0	375.0	-24.1	-43.0	221.0	25.3	24.9	-0.5	327.1	328.0	0.2	20.8	22.5	78.
27.5	76.1	1821.5	350.0	-30.8	-44.8	224.4	26.3	26.2	-2.0	327.2	327.9	0.2	23.7	25.3	80.
29.8	80.3	1855.8	325.0	-35.1	-48.1	229.0	28.6	28.2	-4.5	328.3	328.9	0.1	24.8	28.3	82.
31.5	84.7	1890.6	300.0	-38.9	99.9	233.3	32.3	32.3	-7.7	330.5	999.9	99.9	999.9	32.0	84.
33.4	88.9	1926.1	275.0	-41.0	99.9	231.9	38.0	38.0	-8.0	333.0	999.9	99.9	999.9	36.9	87.
35.2	94.9	1962.2	250.0	-43.5	99.9	234.2	40.4	39.1	-9.9	334.0	999.9	99.9	999.9	42.3	89.
37.5	99.9	1998.9	225.0	-52.8	99.9	234.3	35.6	34.1	-9.9	337.7	999.9	99.9	999.9	47.9	91.
41.4	104.9	2036.2	200.0	-54.2	99.9	241.5	29.3	28.7	-5.8	345.4	999.9	99.9	999.9	52.9	92.
44.7	110.9	2074.3	175.0	-56.2	99.9	270.3	25.2	25.2	-3.2	357.1	999.9	99.9	999.9	57.6	92.
47.6	117.5	2113.3	150.0	-59.3	99.9	279.1	22.0	21.7	-3.5	367.9	999.9	99.9	999.9	62.2	92.
51.2	124.3	2153.2	125.0	-61.4	99.9	274.7	17.4	17.4	-1.4	383.8	999.9	99.9	999.9	66.1	93.
55.5	133.7	2194.0	100.0	-62.4	99.9	269.1	11.6	11.6	1.4	407.2	999.9	99.9	999.9	70.6	93.
61.2	142.7	2235.9	75.0	-63.3	99.9	191.2	5.4	0.1	5.4	440.3	999.9	99.9	999.9	71.9	93.
69.6	152.5	2278.9	50.0	-57.8	99.9	161.7	3.9	-1.2	3.7	507.4	999.9	99.9	999.9	70.3	92.
80.5	161.9	2321.8	25.0	-50.1	99.9	99.0	6.1	-6.0	0.8	640.6	999.9	99.9	999.9	65.9	92.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
+ BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
++ BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 433
SALEM, ILLINOIS

27 MAY 1977
1715 GMT

161 14. 0

TIME MIN.	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.7	175.0	990.6	28.1	10.3	60.0	1.5	-1.4	-0.8	302.1	324.1	6.0	33.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.6	9.2	318.8	975.0	26.6	7.9	224.4	2.7	1.9	1.9	301.9	320.9	6.9	30.5	0.2	322.
1.9	11.3	543.4	950.0	23.8	6.4	162.3	3.1	-0.9	3.0	301.4	319.1	6.4	32.7	0.4	342.
2.7	13.7	775.4	925.0	21.5	6.5	141.0	2.9	-1.9	2.2	301.3	319.6	6.6	37.8	0.5	337.
3.9	15.9	1011.8	900.0	19.5	3.2	142.0	2.5	-1.5	1.9	301.6	316.7	5.4	34.1	0.7	331.
4.9	18.4	1253.0	875.0	16.9	4.0	169.8	2.0	-0.3	1.9	301.2	317.6	5.9	42.6	0.9	333.
5.7	20.9	1499.2	850.0	14.7	-2.6	164.5	3.4	-0.9	3.2	301.6	312.4	3.5	30.4	0.9	334.
6.6	23.1	1750.7	825.0	13.5	-9.9	169.0	5.3	-1.0	5.2	302.9	309.4	2.2	18.6	1.2	336.
7.6	25.6	2009.1	800.0	12.6	-18.2	151.2	6.8	-3.1	5.7	304.6	308.2	1.2	10.2	1.5	338.
8.6	28.0	2274.3	775.0	11.7	-20.8	145.6	6.6	-3.7	5.5	306.3	309.3	0.9	8.5	1.9	336.
9.6	30.7	2546.9	750.0	9.3	-22.2	142.0	7.6	-4.7	6.0	306.7	309.5	0.9	8.7	2.3	334.
10.6	33.3	2826.4	725.0	7.8	-23.2	139.6	8.5	-5.1	6.9	308.0	310.6	0.8	8.9	2.8	331.
11.7	35.9	3114.8	700.0	6.9	-24.1	138.4	9.3	-7.3	5.8	309.4	311.9	0.8	9.1	3.3	327.
12.7	38.7	3412.1	675.0	5.1	-24.8	137.7	8.1	-5.9	5.5	311.4	313.9	0.7	9.2	3.8	325.
13.5	41.3	3719.4	650.0	4.2	-25.4	137.5	8.1	-5.8	5.5	313.7	316.2	0.7	9.3	4.4	324.
14.1	44.3	4035.9	625.3	1.9	-26.9	143.1	6.9	-4.2	5.5	314.6	316.9	0.7	9.6	4.9	324.
15.3	47.3	4364.6	600.0	-0.1	-25.4	133.7	7.7	-5.5	5.3	315.1	318.8	0.8	12.9	5.5	324.
17.6	50.3	4703.7	575.0	-2.6	-24.5	121.9	6.8	-5.7	3.6	317.0	320.0	0.9	16.6	6.0	322.
19.1	53.6	5054.7	550.0	-4.8	-30.2	124.4	5.5	-4.5	3.1	319.4	320.3	0.6	11.6	6.5	320.
20.4	56.4	5418.9	525.0	-7.0	-33.3	147.8	5.1	-2.7	4.3	320.0	321.5	0.4	10.1	6.9	320.
21.8	59.7	5797.5	500.0	-9.7	-35.1	172.1	6.3	-0.9	6.3	321.2	322.5	0.4	10.4	7.3	321.
23.1	63.2	6191.2	475.0	-12.6	-34.2	167.2	8.5	-1.9	8.2	322.4	323.9	0.4	14.3	7.9	324.
24.5	66.6	6601.2	450.0	-16.0	-36.6	163.0	8.5	-2.5	8.1	323.1	324.4	0.4	15.0	8.6	325.
26.1	70.2	7029.3	425.0	-19.2	-37.0	167.7	8.0	-1.7	7.8	324.4	325.7	0.4	18.8	9.3	327.
27.6	73.8	7478.0	400.0	-22.4	-24.8	174.1	7.3	-0.8	7.3	325.9	330.2	1.3	60.1	9.9	329.
29.1	77.6	7949.1	375.0	-25.7	-33.2	171.8	6.1	-0.9	6.1	327.6	329.8	0.6	48.8	10.6	330.
31.0	81.6	8444.9	350.0	-30.0	-38.6	177.8	6.0	-0.2	6.0	328.3	329.7	0.4	42.6	11.1	331.
32.9	85.7	8969.2	325.0	-34.4	-44.0	177.1	7.3	-0.4	7.2	329.3	330.2	0.2	36.5	11.7	332.
34.8	90.2	9522.5	300.0	-39.2	99.9	171.1	9.0	-1.4	8.9	330.1	999.9	99.9	999.9	12.7	334.
36.9	95.0	10112.2	275.0	-44.2	99.9	173.4	7.7	-0.8	7.7	331.2	999.9	99.9	999.9	13.7	336.
38.9	99.5	10743.6	250.0	-49.6	99.9	171.8	9.4	-1.2	8.3	332.3	999.9	99.9	999.9	14.6	337.
41.2	104.9	11425.3	225.0	-54.9	99.9	178.4	5.1	-0.1	5.1	334.6	999.9	99.9	999.9	15.5	338.
43.7	110.4	12159.7	200.0	-60.4	99.9	150.3	4.7	-2.3	4.0	337.1	999.9	99.9	999.9	16.2	338.
46.6	116.3	12993.6	175.0	-63.6	99.9	139.9	3.5	-2.3	2.7	345.1	999.9	99.9	999.9	16.9	338.
50.0	123.3	13940.0	150.0	-61.4	99.9	144.9	2.1	-1.1	1.7	364.3	999.9	99.9	999.9	17.2	336.
54.0	130.5	15077.3	125.0	-60.5	99.9	281.1	1.8	1.8	-0.3	395.4	999.9	99.9	999.9	17.3	337.
58.6	139.0	16464.4	100.0	-61.5	99.9	306.9	1.7	1.4	-1.0	408.9	999.9	99.9	999.9	17.6	338.
66.2	145.7	18249.7	75.0	-62.9	99.9	7.9	3.9	-0.5	-3.8	441.1	999.9	99.9	999.9	17.0	336.
72.2	154.1	20755.1	50.0	-56.3	99.9	77.5	7.0	-6.8	-1.5	510.9	999.9	99.9	999.9	17.5	330.
84.3	163.0	25292.3	25.0	-47.8	99.9	153.7	6.5	-2.9	5.9	647.8	999.9	99.9	999.9	21.5	314.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 451
DODGE CITY, KANSAS

27 MAY 1977
1715 GMT

154 12. 0

TIME MIN.	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.0	791.0	919.0	20.6	14.0	140.0	3.6	0.0	3.6	301.0	330.8	11.1	66.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	15.5	847.0	900.0	18.7	14.5	199.5	4.6	1.5	4.3	300.*	332.0	11.7	76.9	0.2	4.
1.5	19.0	1203.2	875.0	16.1	11.5	214.5	4.6*	2.7	3.7	300.5	331.2	11.5	86.3	0.4	17.
2.7	20.6	1449.5	850.0	13.6	12.7	220.9	4.2	2.7	3.2	300.4	329.9	11.0	94.2	0.7	25.
3.7	22.9	1700.9	825.0	12.1	11.4	239.2	5.1	3.9	3.3	301.4	329.4	10.4	95.9	0.9	30.
4.1	25.4	1959.1	800.0	12.7	-5.4	230.8	7.5	6.3	4.1	304.2	317.1	4.6	43.6	1.2	36.
5.1	27.9	2225.9	775.0	13.6	-22.1	236.3	9.8	8.2	5.*	309.5	311.2	0.4	6.7	1.7	42.
6.2	30.5	2500.6	750.0	11.5	-22.9	238.9	10.5	9.3	5.6	307.1	311.7	0.8	7.2	2.4	47.
7.3	33.3	2781.9	725.0	8.7	-24.0	241.6	12.3	10.8	5.8	309.2	311.5	0.8	7.7	3.1	50.
8.5	35.9	3070.4	700.0	6.2	-22.1	246.2	14.1	12.9	5.7	309.4	312.3	0.9	11.0	4.0	53.
9.7	38.9	3366.7	675.0	3.4	-16.2	242.7	17.9	15.9	8.2	309.5	314.5	1.6	22.1	5.2	56.
10.9	41.4	3671.3	650.0	0.7	-15.3	242.5	18.4	16.3	8.5	309.8	315.4	1.8	29.0	6.4	57.
12.2	44.4	3984.4	625.0	-1.5	-24.0	246.2	17.5	15.0	7.1	310.7	313.6	0.9	16.5	7.9	58.
13.6	47.5	4308.8	600.0	-3.2	-47.0	248.8	17.5	16.1	6.9	312.5	312.8	0.1	1.8	9.3	60.
14.8	50.5	4641.9	575.0	-5.5	-51.1	245.2	17.0	15.5	7.1	313.5	313.5	0.1	1.4	10.6	60.
16.1	53.6	4981.8	550.0	-7.4	-54.8	247.3	15.5	15.3	6.4	315.0	315.*	0.0	1.0	11.9	61.
17.4	56.6	5331.3	525.0	-9.7	-56.0	247.9	18.3	17.0	6.9	316.8	316.9	0.0	1.0	13.2	62.
18.8	60.0	5725.1	500.0	-13.1	-59.2	247.5	18.4	17.0	7.0	317.0	317.2	0.0	1.0	14.9	62.
20.2	63.5	6113.4	475.0	-15.9	-59.6	246.8	17.0	15.9	6.9	319.5	318.6	0.0	1.0	16.2	63.
21.7	66.9	6519.4	450.0	-19.2	-61.5	260.0	14.1	13.9	2.5	320.4	320.5	0.0	1.0	17.6	64.
23.4	70.5	6943.4	425.0	-21.9	-63.6	269.7	17.3	17.3	0.1	321.0	321.0	0.0	1.0	19.0	65.
25.0	74.2	7386.9	400.0	-25.5	-63.4	269.4	23.5	23.5	0.7	321.9	321.9	0.0	1.5	20.7	68.
26.7	78.2	7851.2	375.0	-29.9	-59.5	258.2	27.3	24.5	5.6	323.5	323.7	0.0	3.8	23.4	69.
28.5	82.2	8341.9	350.0	-32.7	-66.6	258.3	25.4	24.9	5.2	324.6	324.6	0.0	4.2	26.*	70.
30.5	86.2	8859.1	325.0	-36.7	-63.6	266.3	25.9	25.9	1.7	326.1	326.2	0.0	4.2	29.2	71.
32.3	90.9	9407.4	300.0	-41.9	99.9	279.4	25.7	25.4	-4.2	326.4	999.9	99.9	999.9	31.8	73.
34.3	95.4	9993.1	275.0	-45.0	99.9	278.6	26.5	24.2	-4.0	330.0	999.9	99.9	999.9	34.6	76.
36.3	100.1	10620.1	250.0	-47.1	99.9	267.4	22.2	22.2	0.8	336.1	999.9	99.9	999.9	37.7	77.
38.5	105.8	11316.7	225.0	-51.4	99.9	268.7	19.9	18.5	7.2	339.8	999.9	99.9	999.9	40.3	77.
41.0	111.9	12076.0	200.0	-53.4	99.9	251.9	19.4	18.4	6.0	349.2	999.9	99.9	999.9	43.2	77.
43.5	117.1	12929.7	175.0	-56.8	99.9	241.2	17.6	15.4	8.5	354.8	999.9	99.9	999.9	45.8	76.
47.0	124.8	13911.4	150.0	-55.5	99.9	260.6	15.9	15.7	2.6	374.5	999.9	99.9	999.9	49.2	76.
50.5	131.0	15040.6	125.0	-59.5	99.9	261.4	13.9	13.8	2.1	387.4	999.9	99.9	999.9	52.1	76.
54.7	138.7	16455.0	100.0	-61.6	99.9	246.8	7.4	6.8	2.9	408.6	999.9	99.9	999.9	54.7	77.
60.3	146.4	18296.9	75.0	-64.1	99.9	151.3	6.0	-1.9	3.5	438.6	999.9	99.9	999.9	58.4	78.
67.5	154.3	20741.8	50.0	-67.9	99.9	102.0	5.0	-4.9	1.0	507.2	999.9	99.9	999.9	64.0	79.
79.0	162.7	25205.9	25.0	-51.8	99.9	999.9	999.9	99.9	99.9	636.8	999.9	99.9	999.9	69.8	79.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 456
TOPEKA, KANSAS

27 MAY 1977
1700 GMT

156 12. 0

TIME MIN.	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.4	969.0	979.0	21.1	19.4	170.0	4.1	-0.7	4.0	296.1	334.4	14.7	90.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	9.7	994.8	975.0	21.4	19.2	999.9	99.9	99.9	99.9	295.7	334.7	14.6	87.2	999.9	999.
1.0	10.8	970.3	950.0	19.6	17.9	999.9	999.9	99.9	99.9	297.1	333.3	13.8	90.1	999.9	999.
2.0	13.2	750.7	923.0	18.9	17.4	999.9	999.9	99.9	99.9	298.4	334.8	13.7	91.1	0.5	84.
3.0	15.5	986.7	900.0	17.2	16.0	262.0	7.6	7.5	1.1	299.3	333.3	12.8	92.2	0.5	105.
4.2	17.9	1237.0	875.0	16.6	13.9	194.5	10.9	2.7	10.5	301.1	332.1	11.5	84.0	0.9	49.
5.7	20.7	1474.0	850.0	14.7	12.9	202.0	9.7	3.6	9.0	301.6	331.5	11.1	88.7	1.5	36.
6.3	22.7	1775.8	825.0	11.9	9.6	214.2	9.4	4.7	8.9	301.2	326.1	9.2	86.2	2.1	34.
7.5	25.2	1987.5	800.0	10.4	8.8	199.8	8.7	1.8	8.1	302.4	323.9	7.8	77.3	2.6	33.
8.9	27.6	2247.8	775.0	8.9	5.4	171.6	10.0	-1.5	9.9	303.7	323.5	7.3	79.0	3.2	25.
10.7	30.2	2518.7	750.0	6.6	4.1	172.9	11.5	-1.5	11.4	303.7	321.0	6.9	84.2	4.0	18.
12.9	33.0	2796.8	725.0	4.9	1.9	172.2	13.6	-1.8	13.4	304.7	321.8	6.1	81.2	5.2	12.
13.4	35.5	3083.0	700.0	3.5	0.6	174.1	15.0	-1.6	14.9	305.4	322.7	5.7	81.1	6.3	8.
14.8	38.1	3377.5	675.0	1.2	-0.7	175.6	15.0	-1.1	15.0	307.0	322.5	5.4	87.2	7.6	6.
16.2	40.9	3681.3	650.0	0.2	-1.8	173.4	14.4	-1.7	14.3	309.2	324.2	5.2	86.0	8.8	5.
17.5	43.9	3994.7	625.0	-2.3	-3.9	177.8	14.4	-0.5	14.4	309.8	323.3	4.6	88.5	9.9	3.
19.7	46.9	4319.2	600.0	-3.7	-5.5	179.0	16.3	-0.3	16.3	311.8	324.0	4.1	84.7	11.0	3.
20.1	49.9	4654.4	575.0	-4.3	-10.7	172.5	15.7	-2.0	15.6	314.3	323.4	3.0	63.7	12.4	2.
21.9	52.8	5001.1	550.0	-6.8	-11.8	174.4	14.6	-1.4	14.5	316.0	324.7	2.8	67.8	13.9	1.
23.4	55.9	5356.7	525.0	-9.3	-17.6	174.0	18.1	-1.9	19.0	317.2	323.1	1.8	50.6	15.6	0.
25.2	59.1	5720.8	500.0	-11.3	-19.2	172.0	14.5	-2.6	14.3	319.3	324.7	1.7	51.6	17.3	360.
27.0	62.4	6132.7	475.0	-17.9	-24.5	173.7	16.2	-1.8	16.1	320.9	324.5	1.1	36.8	19.2	359.
28.7	65.9	6541.7	450.0	-15.9	-31.8	179.0	14.3	-0.3	14.3	323.3	325.4	0.6	24.1	20.7	359.
30.4	69.4	6979.6	425.0	-18.1	-33.2	185.1	15.7	1.4	15.6	325.8	327.7	0.5	22.1	22.2	356.
32.4	73.0	7430.1	400.0	-22.2	-30.7	182.0	19.6	0.7	19.5	326.2	328.9	0.4	47.3	24.1	359.
34.2	76.9	7891.4	375.0	-25.8	-33.1	183.9	20.9	1.4	20.8	327.4	329.6	0.6	50.0	26.5	360.
36.2	80.9	8398.1	350.0	-29.4	-36.4	180.6	18.8	0.2	18.9	329.1	330.8	0.5	50.7	28.8	360.
38.6	85.0	8912.7	325.0	-33.9	-42.7	179.5	18.5	-0.5	18.5	330.1	331.1	0.3	39.9	31.2	360.
40.9	89.2	9446.6	300.0	-38.9	-47.5	179.8	18.7	-1.4	18.7	331.4	332.0	0.2	37.0	33.6	360.
43.2	93.8	10052.1	275.0	-43.2	99.9	161.7	18.5	-5.8	17.5	332.6	999.9	99.9	999.9	36.7	359.
45.7	98.4	10696.7	250.0	-48.7	99.9	161.1	21.1	-6.8	20.0	333.7	999.9	99.9	999.9	39.3	358.
48.4	103.8	11391.1	225.0	-53.7	99.9	161.9	20.9	-6.5	19.4	336.3	999.9	99.9	999.9	42.6	356.
51.9	109.4	12130.9	200.0	-59.0	99.9	180.5	22.2	0.2	22.2	339.3	999.9	99.9	999.9	45.9	356.
53.6	115.2	12957.6	175.0	-64.7	99.9	181.9	14.0	0.4	13.9	343.9	999.9	99.9	999.9	48.8	356.
57.2	121.7	13915.7	150.0	-59.3	99.9	211.8	10.4	5.5	8.8	347.9	999.9	99.9	999.9	51.2	357.
61.3	128.7	14951.2	125.0	-61.7	99.9	255.4	5.1	5.0	1.3	383.2	999.9	99.9	999.9	52.3	358.
65.0	135.0	15440.0	100.0	-59.3	99.9	190.5	5.8	1.0	5.7	413.2	999.9	99.9	999.9	53.2	359.
79.1	143.3	19224.7	75.0	-61.7	99.9	245.4	6.9	6.2	2.9	439.5	999.9	99.9	999.9	55.4	359.
80.4	151.0	20744.1	50.0	-57.8	99.9	105.5	7.2	-7.0	1.9	507.8	999.9	99.9	999.9	55.8	357.
97.8	159.0	25182.1	25.0	-51.2	99.9	999.9	999.9	99.9	99.9	637.6	999.9	99.9	999.9	56.7	350.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 4 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 4 DEG

STATION NO. 532
PEORIA, ILLINOIS

27 MAY 1977
1700 GMT

12S 70. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	4.8	900.0	989.5	28.9	11.7	120.0	4.1	-3.6	2.0	302.4	326.5	8.9	26.0	0.0	0.
99.0	99.0	99.0	1000.0	99.0	99.0	99.0	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.3	7.5	321.7	975.0	28.9	10.6	999.9	999.9	99.9	99.9	301.5	324.2	8.3	27.4	999.9	999.
1.0	9.4	549.7	950.0	26.1	9.6	999.9	999.9	99.9	99.0	301.7	323.5	8.0	26.9	999.9	999.
1.4	11.0	732.0	935.0	21.5	9.1	999.9	999.9	99.9	99.9	301.5	323.1	7.9	44.7	999.9	999.
2.0	13.0	1018.5	900.0	19.1	7.9	141.0	3.7	-2.3	2.8	301.2	321.8	7.5	48.4	0.9	321.
3.2	16.9	1259.8	875.0	16.9	7.5	124.6	4.2	-3.4	2.4	301.4	321.9	7.5	53.8	0.7	318.
4.1	18.7	1406.1	850.0	14.4	6.0	121.7	5.3	-4.5	2.8	301.2	320.3	6.9	57.8	1.0	314.
4.9	19.7	1759.7	825.0	13.7	-11.3	122.3	7.1	-6.0	3.8	303.1	309.8	2.3	19.7	1.2	311.
5.6	20.6	2016.7	800.0	13.4	-7.3	119.2	9.4	-8.2	4.6	305.5	313.8	2.8	23.1	1.6	309.
6.5	22.7	2293.1	775.0	12.1	-4.7	118.4	10.9	-9.4	5.2	306.8	317.1	3.5	30.5	2.2	306.
7.5	24.9	2554.6	750.0	10.0	-5.7	117.2	10.5	-9.4	4.8	307.4	317.3	3.3	32.6	2.8	304.
8.7	26.9	2827.6	725.0	8.1	-7.2	122.6	10.6	-8.9	5.7	308.4	317.5	3.1	32.9	3.5	303.
9.5	29.0	3124.0	700.0	5.9	-9.1	131.0	9.1	-6.9	6.0	309.0	317.3	2.9	33.1	4.2	304.
10.9	31.3	3422.9	675.0	4.1	-12.2	133.4	7.0	-5.1	4.8	310.1	317.1	2.2	26.4	4.8	305.
12.1	33.6	3720.9	650.0	2.7	-16.1	141.9	4.6	-2.9	3.6	312.0	317.2	1.7	23.5	5.1	305.
13.3	35.9	4045.3	625.0	1.3	-20.3	158.7	5.8	-2.1	5.4	314.0	317.9	1.2	18.2	5.4	307.
14.4	38.3	4372.5	600.0	-0.9	-26.8	184.6	8.0	0.6	7.9	315.1	317.5	0.7	11.8	5.8	311.
15.4	40.7	4710.7	575.0	-3.2	-28.4	152.0	6.0	-2.6	5.3	316.3	316.4	0.6	12.0	6.1	314.
17.0	43.2	5060.9	550.0	-5.2	-31.4	159.5	8.1	-2.9	7.6	317.5	319.6	0.5	10.8	6.6	315.
18.5	45.0	5424.3	525.0	-8.1	-31.9	163.2	8.8	-2.6	8.4	318.7	320.4	0.5	12.6	7.3	318.
19.9	46.9	5801.8	500.0	-10.4	-33.6	171.8	9.3	-1.3	9.2	320.3	321.9	0.4	12.8	8.0	321.
21.7	51.4	6196.5	475.0	-12.0	-34.7	176.0	9.8	-0.7	9.8	321.9	322.9	0.3	9.4	8.7	324.
23.8	54.3	6604.9	450.0	-15.9	-39.3	174.7	10.4	-1.0	10.4	323.4	324.4	0.3	11.1	9.5	327.
24.8	57.1	7032.1	425.0	-19.6	-33.1	174.8	10.2	-0.9	10.1	323.9	325.8	0.5	26.0	10.4	329.
24.2	60.3	7477.2	400.0	-23.3	-27.2	193.1	10.9	2.5	10.6	324.7	328.2	1.0	70.4	11.3	332.
25.0	63.7	7947.9	375.0	-27.1	-35.8	192.0	8.8	1.8	8.6	325.9	327.5	0.5	43.2	12.0	336.
28.8	66.9	8441.4	350.0	-30.7	-39.9	178.5	9.5	-0.9	9.4	327.4	328.6	0.3	36.7	12.9	337.
31.7	70.6	8963.7	325.0	-34.7	-44.1	169.4	8.6	-1.6	8.3	328.8	329.7	0.2	37.7	14.0	338.
33.7	74.2	9515.7	300.0	-39.5	99.9	174.6	7.4	-0.4	7.3	329.6	999.9	99.9	999.9	14.9	339.
35.9	78.2	10106.1	275.0	-44.0	99.9	186.4	4.9	0.8	4.9	331.5	999.9	99.9	999.9	15.7	341.
38.2	82.3	10739.2	250.0	-48.7	99.9	190.4	4.5	0.8	4.5	333.6	999.9	99.9	999.9	16.5	342.
40.9	86.9	11423.1	225.0	-53.9	99.9	94.3	2.2	-2.2	0.2	335.9	999.9	99.9	999.9	16.7	342.
43.5	91.8	12170.7	200.0	-59.4	99.9	44.8	5.6	-4.1	-3.8	338.7	999.9	99.9	999.9	16.4	340.
45.3	97.0	12995.1	175.0	-64.0	99.9	92.4	3.7	-3.7	0.2	344.3	999.9	99.9	999.9	16.3	337.
49.9	102.8	13909.0	150.0	-61.0	99.9	173.1	2.1	-0.2	2.0	365.8	999.9	99.9	999.9	16.6	337.
54.2	109.9	15091.1	125.0	-59.3	99.9	288.4	1.5	1.4	-0.5	387.7	999.9	99.9	999.9	17.0	337.
59.1	117.3	16479.9	100.0	-61.2	99.9	191.0	2.2	0.4	2.2	409.5	999.9	99.9	999.9	17.2	336.
65.5	127.5	19259.1	75.0	-62.6	99.9	999.9	99.9	99.9	99.9	441.8	999.9	99.9	999.9	999.9	999.
99.0	99.9	99.9	50.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.0	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. [illegible]
OMAHA, NEBRASKA

27 MAY 1977
1700 GMT

156 12. 0

TIME MIN.	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE NM	AZ DG
0.0	0.0	400.0	982.4	20.0	16.6	360.0	2.6	0.0	-2.6	296.4	329.2	12.5	81.0	0.0	0.
00.0	00.0	00.0	1000.0	99.9	99.9	00.0	99.9	99.9	99.9	999.9	99.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.0	99.9	99.9	99.9	999.9	99.9	99.9	999.9	999.9	999.
0.4	13.1	413.1	950.0	19.4	15.5	19.6	2.7	-0.7	-2.1	296.9	327.9	11.8	78.3	0.1	179.
1.1	13.1	741.1	925.0	16.9	14.9	90.0	1.1	-1.1	0.0	296.6	327.2	11.6	87.6	0.1	180.
2.1	14.5	974.7	900.0	15.2	12.8	157.7	1.9	-0.7	1.8	297.2	324.8	10.4	83.7	0.1	261.
3.1	16.5	1214.0	875.0	14.5	13.2	158.0	5.4	-2.4	5.0	298.8	328.2	11.0	92.4	0.2	276.
4.1	19.7	1456.1	850.0	13.2	12.1	177.8	12.7	-0.5	12.7	300.0	328.2	10.5	92.8	0.6	345.
5.1	21.1	1713.7	825.0	12.4	11.1	164.5	14.7	-3.9	14.2	301.7	329.2	10.1	91.9	1.5	348.
6.1	23.4	1969.6	800.0	10.3	7.0	162.4	14.1	-4.9	13.4	301.9	323.7	7.9	81.4	2.4	345.
7.9	25.9	2231.0	775.0	8.4	3.6	161.4	18.5	-6.9	17.5	302.9	320.8	6.4	72.0	3.6	348.
9.3	28.5	2502.6	750.0	7.5	-5.8	160.7	17.0	-6.3	17.0	304.7	314.3	3.3	38.2	4.8	343.
9.4	31.1	2780.7	725.0	5.5	-11.1	160.5	16.7	-6.3	17.7	305.6	312.4	2.7	28.9	6.0	342.
10.5	33.8	3064.4	700.0	3.8	-11.4	159.2	18.8	-6.6	17.7	306.7	309.8	1.0	17.9	7.3	342.
11.7	36.2	3350.6	675.0	1.9	-18.0	155.5	20.5	-8.5	18.7	307.7	312.5	1.6	24.5	8.6	342.
12.9	39.0	3643.0	650.0	-0.8	-27.6	155.8	21.5	-8.8	19.6	308.1	310.1	0.6	10.5	10.2	341.
14.2	41.8	3934.0	625.0	-2.8	-29.5	160.5	21.9	-7.3	20.6	309.2	311.1	0.6	11.0	11.8	340.
15.4	44.4	4227.2	600.0	-4.5	-34.7	165.8	20.9	-5.1	20.2	311.0	313.1	0.7	14.6	13.4	341.
16.8	47.6	4521.6	575.0	-6.1	-18.1	163.1	20.5	-6.0	19.6	312.9	317.9	1.6	37.2	15.1	341.
18.0	50.5	4824.0	550.0	-7.1	-11.7	161.9	21.7	-6.7	20.7	315.6	324.4	2.8	65.6	16.7	341.
19.4	53.5	5141.1	525.0	-8.5	-12.8	172.5	22.2	-2.9	22.0	318.2	326.7	2.7	71.4	18.5	342.
20.9	56.5	5419.4	500.0	-10.7	-14.1	180.7	19.1	0.2	19.1	320.0	328.1	2.6	76.0	20.2	343.
22.6	59.9	5111.3	475.0	-13.1	-17.0	181.5	17.1	0.4	17.1	321.8	328.7	2.1	72.2	21.8	344.
23.9	63.1	6521.4	450.0	-16.0	-19.7	181.1	19.0	0.4	19.0	323.2	329.0	1.9	72.7	23.4	346.
25.5	66.4	6849.7	425.0	-18.9	-22.8	180.5	20.7	0.2	20.7	324.9	329.6	1.4	70.9	25.2	347.
27.1	70.1	7198.8	400.0	-22.2	-26.4	184.3	18.5	1.4	18.4	326.1	329.9	.1	68.9	27.1	348.
28.8	73.9	7570.8	375.0	-25.0	-32.3	185.9	17.0	1.9	16.9	328.6	330.9	0.7	50.0	28.9	349.
30.5	77.9	8347.7	350.0	-29.6	-35.9	184.9	19.3	1.7	19.3	328.8	330.6	0.5	54.1	30.7	350.
32.3	81.8	8802.5	325.0	-33.9	-40.6	180.9	20.9	0.3	20.9	330.1	331.3	0.3	46.8	32.9	351.
34.3	85.9	9268.5	300.0	-39.1	-44.6	177.7	22.0	-0.9	22.0	331.7	332.6	0.2	45.8	35.2	351.
36.3	90.5	10040.8	275.0	-43.1	99.9	167.5	21.3	-4.6	20.8	332.4	999.9	99.9	999.9	37.9	352.
38.5	95.3	10474.0	250.0	-48.2	99.9	158.0	21.0	-7.9	19.5	334.4	999.9	99.9	999.9	40.7	351.
40.9	100.3	11342.8	225.0	-53.4	99.9	151.5	21.4	-10.2	19.8	336.7	999.9	99.9	999.9	43.9	350.
43.2	105.9	12111.9	200.0	-58.6	99.9	166.2	22.8	-5.4	22.1	340.0	999.9	99.9	999.9	46.4	349.
45.7	111.9	12979.2	175.0	-64.4	99.9	174.9	19.2	-1.8	19.1	343.6	999.9	99.9	999.9	49.6	349.
48.5	118.1	13895.4	150.0	-67.7	99.9	185.2	12.7	1.1	12.6	370.7	999.9	99.9	999.9	52.8	349.
51.3	125.5	15061.1	125.0	-59.9	99.9	174.8	8.8	-0.9	9.7	396.5	999.9	99.9	999.9	54.8	350.
55.1	133.7	16434.9	100.0	-60.5	99.9	220.1	6.3	4.1	4.8	410.9	999.9	99.9	999.9	55.3	350.
60.4	141.7	18294.9	75.0	-62.0	59.5	146.0	4.7	-2.7	3.9	443.0	999.9	99.9	999.9	55.6	351.
67.6	150.3	20779.2	50.0	-56.2	99.9	99.3	7.8	-7.7	1.3	511.2	999.9	99.9	999.9	56.7	348.
79.2	159.7	25237.0	25.0	-51.5	99.9	999.9	999.9	99.9	99.9	637.0	999.9	99.9	999.9	58.3	344.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 5 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 5 DEG
ERROR NO INTERPOLATION FOR PRESSURE OF 962.0
ERROR NO INTERPOLATION FOR PRESSURE OF 962.0

STATION NO. 562
NORTH PLATTE, NEBRASKA

27 MAY 1977
1800 GMT

155 19. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.3	847.0	910.0	20.0	12.0	240.0	3.1	2.7	1.5	301.1	327.5	9.7	60.0	0.0	0.
99.9	99.0	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.0	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	16.2	950.8	900.0	18.0	9.0	265.7	3.4	3.4	0.3	321.0	323.1	8.1	52.6	0.2	63.
1.4	19.5	1191.6	875.0	16.2	6.9	267.1	3.7	3.7	0.2	320.6	320.3	7.1	53.8	0.3	74.
2.5	21.2	1437.6	850.0	13.9	6.0	284.5	4.7	4.5	-1.2	320.7	319.9	7.0	56.1	0.6	82.
3.3	23.0	1683.4	825.0	12.7	0.9	291.5	6.1	5.6	-2.2	322.1	316.1	5.0	44.3	0.8	81.
4.2	25.4	1928.4	800.0	11.1	-1.5	280.6	6.9	6.8	-1.3	323.0	315.1	4.3	41.4	1.2	90.
5.2	29.1	2210.4	775.0	9.5	-6.2	285.4	6.8	6.5	-1.8	324.1	313.2	3.1	32.4	1.6	97.
6.4	32.8	2491.5	750.0	7.6	-11.1	291.0	7.0	6.5	-2.5	324.9	311.4	2.2	25.8	2.1	100.
7.4	34.9	2750.9	725.0	4.9	-10.3	286.0	6.1	5.8	-1.7	324.7	311.9	2.4	33.3	2.5	102.
8.6	37.9	3045.0	700.0	3.5	-12.7	288.4	6.5	6.5	0.2	326.4	312.6	2.1	26.2	2.9	101.
9.7	40.4	3330.9	675.0	1.7	-14.2	289.5	8.0	7.9	1.5	327.5	313.3	1.9	25.3	3.4	96.
10.9	43.3	3612.3	650.0	-0.1	-16.0	290.3	8.9	8.4	3.0	328.9	314.1	1.7	24.0	3.9	95.
12.0	45.4	3894.8	625.0	-2.5	-17.0	290.1	8.9	7.7	4.4	329.5	314.5	1.6	32.0	4.5	91.
13.1	49.6	4175.9	600.0	-5.5	-17.9	291.2	8.9	7.8	4.3	329.7	314.6	1.6	37.0	5.0	87.
14.3	52.4	4460.4	575.0	-7.8	-19.9	290.5	9.6	8.1	2.9	330.8	315.2	1.4	37.3	5.6	85.
15.5	55.8	4752.8	550.0	-9.9	-24.4	290.9	8.8	8.3	2.9	331.4	315.5	1.0	25.2	6.2	84.
16.8	59.1	5050.7	525.0	-12.6	-29.9	290.8	8.9	8.4	2.9	331.7	315.3	0.6	21.8	6.9	82.
18.2	62.7	5360.9	500.0	-16.1	-31.7	286.7	11.6	10.7	4.6	333.4	315.2	0.5	24.6	7.7	81.
19.6	66.0	5684.7	475.0	-19.3	-34.3	286.4	14.7	12.2	8.1	334.1	315.6	0.4	25.0	8.7	79.
21.3	69.8	6024.9	450.0	-22.0	-37.7	288.2	17.9	11.6	13.7	335.6	316.8	0.3	22.4	9.9	75.
23.6	73.4	6383.7	425.0	-23.9	-41.0	287.3	18.5	8.5	16.5	339.3	319.2	0.2	16.2	11.3	69.
24.0	77.5	6763.6	400.0	-27.2	-43.8	291.0	16.6	0.0	13.5	339.7	320.4	0.2	18.8	12.4	64.
25.6	81.4	7165.4	375.0	-30.4	-46.6	289.4	17.4	2.6	17.2	341.4	321.9	0.1	18.7	13.5	59.
27.3	85.4	7592.7	350.0	-33.7	-49.3	175.6	20.0	-1.5	19.9	343.3	323.7	0.1	18.9	14.6	53.
29.1	93.0	8047.7	325.0	-37.9	-52.4	169.5	23.2	-4.2	22.8	344.4	324.7	0.1	20.1	15.9	45.
31.1	94.8	8534.5	300.0	-41.1	99.9	166.4	26.1	-6.1	25.3	347.5	999.9	99.9	999.9	17.6	37.
33.0	99.6	9050.8	275.0	-44.9	99.9	161.6	30.4	-9.6	28.8	350.2	999.9	99.9	999.9	19.6	30.
35.1	104.8	10601.9	250.0	-48.7	99.9	167.4	32.0	-7.0	31.3	353.6	999.9	99.9	999.9	22.7	22.
37.6	110.4	11242.7	225.0	-49.4	99.9	173.6	23.1	-2.6	23.0	342.9	999.9	99.9	999.9	26.3	17.
40.1	116.0	12014.7	200.0	-49.9	99.9	185.1	19.1	1.8	19.0	353.8	999.9	99.9	999.9	29.2	16.
42.9	122.5	12881.9	175.0	-52.9	99.9	204.2	16.1	6.6	14.7	362.6	999.9	99.9	999.9	32.2	15.
46.3	129.5	13875.4	150.0	-53.4	99.9	225.2	14.5	10.3	10.2	378.2	999.9	99.9	999.9	35.8	17.
50.2	136.7	15050.9	125.0	-53.9	99.9	222.6	7.7	5.2	5.6	397.5	999.9	99.9	999.9	37.6	19.
54.6	143.5	16457.8	100.0	-57.9	99.9	194.2	5.3	1.3	5.1	415.9	999.9	99.9	999.9	38.8	20.
60.4	151.0	18258.3	75.0	-59.1	99.9	155.4	5.5	-2.3	5.0	449.0	999.9	99.9	999.9	40.8	20.
68.3	159.0	20824.2	50.0	-55.3	99.9	95.2	5.8	-5.7	0.5	513.1	999.9	99.9	999.9	41.5	17.
91.0	167.0	24290.4	25.0	-49.9	99.9	91.3	7.5	-7.5	0.2	641.2	999.9	99.9	999.9	40.5	18.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 654
HURON, SOUTH DAKOTA

27 MAY 1977
1800 GMT

148 25. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.8	999.0	959.7	20.6	13.6	140.0	7.7	-2.6	7.2	297.2	324.5	10.3	64.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.3	10.2	979.9	950.0	19.4	15.4	158.7	10.0	-3.4	9.3	296.9	327.8	11.7	77.6	0.4	348.
1.2	12.5	707.4	925.0	17.3	16.3	163.0	12.9	-3.8	12.4	297.0	330.4	12.7	93.8	0.9	343.
2.0	15.0	983.2	900.0	15.7	14.7	172.7	15.7	-2.0	15.6	297.3	328.5	11.8	95.9	1.6	345.
2.8	17.7	1193.1	875.0	13.6	13.0	181.5	16.2	0.4	16.2	297.9	326.9	10.9	96.2	2.4	345.
3.7	19.3	1396.6	850.0	11.9	11.3	184.6	16.6	1.3	16.5	298.5	325.2	10.0	96.3	3.2	352.
4.6	22.3	1596.0	825.0	11.0	10.3	187.0	17.1	0.9	17.1	300.3	326.3	9.6	95.6	4.1	356.
5.5	24.9	1797.6	800.0	9.5	8.8	184.7	15.4	1.3	15.3	301.3	325.6	8.9	94.9	5.1	357.
6.8	27.6	2197.5	775.0	9.1	7.4	184.5	14.9	1.2	14.8	302.5	325.6	8.4	95.3	5.9	358.
7.4	30.1	2448.0	750.0	6.2	5.7	183.3	13.6	0.9	13.6	303.3	324.6	7.7	96.6	6.7	359.
8.5	32.9	2746.0	725.0	4.7	3.8	183.2	14.3	0.8	14.3	304.7	324.2	7.0	93.5	7.6	359.
9.8	35.6	3032.7	700.0	3.7	2.7	180.7	14.1	0.1	14.1	306.2	325.0	6.7	95.8	8.5	366.
10.5	39.4	3327.0	675.0	1.6	1.4	181.1	13.1	0.3	13.1	307.5	325.5	6.3	98.7	9.3	360.
11.5	41.1	3620.9	650.0	0.3	-0.5	178.4	13.0	-0.4	13.0	309.3	325.8	5.7	94.1	10.1	360.
12.5	44.1	3944.9	625.0	-1.7	-2.3	176.5	12.9	-0.8	12.8	310.5	325.6	5.2	95.6	10.9	360.
13.7	47.3	4249.3	600.0	-3.4	-4.0	177.4	13.9	-0.6	13.8	312.2	326.2	4.7	95.5	11.8	359.
14.8	50.3	4605.3	575.0	-5.5	-6.9	176.7	14.8	-0.9	14.8	313.5	325.4	4.0	85.7	12.6	356.
15.9	53.4	4953.1	550.0	-7.5	-8.4	174.2	14.2	-1.4	14.2	315.2	325.6	3.4	86.3	13.7	356.
17.0	56.4	5314.0	525.0	-10.0	-12.5	170.8	15.1	-2.4	15.0	316.5	325.1	2.8	81.6	14.7	356.
18.2	59.8	5699.7	500.0	-11.7	-13.7	171.9	20.3	-2.9	20.0	318.8	327.1	2.7	85.4	15.9	358.
19.4	63.1	6090.6	475.0	-14.5	-16.0	173.9	23.4	-2.9	23.2	320.1	327.4	2.3	88.4	17.4	357.
20.8	66.4	6469.5	450.0	-16.5	-17.9	172.7	26.0	-3.3	25.8	322.5	329.2	2.1	86.3	19.5	357.
22.3	70.1	6917.1	425.0	-19.5	-22.6	169.5	27.1	-4.9	26.7	323.9	328.4	1.3	69.9	21.9	356.
23.7	73.9	7365.2	400.0	-23.5	-28.2	168.1	26.6	-5.5	26.1	325.7	328.9	0.9	55.6	24.2	356.
25.2	77.7	7836.2	375.0	-25.9	-33.6	169.5	29.2	-5.2	27.7	327.4	329.5	0.6	47.7	26.6	355.
26.8	81.7	8322.7	350.0	-29.5	-37.5	170.6	27.4	-4.5	27.0	329.0	330.6	0.4	45.6	29.2	354.
28.4	85.7	8857.3	325.0	-33.8	-41.3	171.7	28.0	-4.1	27.7	330.1	331.2	0.3	46.4	31.9	354.
30.0	90.0	9417.0	300.0	-38.0	-48.6	170.6	32.0	-5.2	31.6	331.8	332.4	0.1	31.4	34.7	354.
31.7	94.9	10004.2	275.0	-43.0	99.9	169.5	29.0	-8.7	27.6	332.9	999.9	99.9	999.9	37.9	354.
33.5	99.8	10641.0	250.0	-48.6	99.9	169.9	31.4	-8.9	30.1	333.9	999.9	99.9	999.9	40.8	352.
35.3	104.7	11324.5	225.0	-52.0	99.9	170.2	35.9	-6.1	35.4	337.4	999.9	99.9	999.9	44.8	352.
37.3	109.8	12074.8	200.0	-53.7	99.9	172.1	27.8	-3.8	27.5	338.2	999.9	99.9	999.9	48.3	352.
39.7	115.4	12907.7	175.0	-61.9	99.9	169.5	28.1	-5.1	27.6	347.7	999.9	99.9	999.9	52.6	352.
42.4	121.5	13877.6	150.0	-55.5	99.9	182.6	18.6	0.9	18.5	374.4	999.9	99.9	999.9	56.0	352.
45.5	128.0	15029.7	125.0	-57.1	99.9	186.9	12.3	1.5	12.2	391.9	999.9	99.9	999.9	58.9	353.
49.5	135.3	16438.5	100.0	-57.5	99.9	165.7	6.5	-1.6	6.3	416.6	999.9	99.9	999.9	60.4	353.
54.3	141.9	18048.1	75.0	-59.0	99.9	143.9	6.4	-3.8	5.1	449.3	999.9	99.9	999.9	61.8	353.
60.9	148.8	20821.5	50.0	-55.0	99.9	98.6	6.5	-6.4	1.0	514.0	999.9	99.9	999.9	62.9	281.
73.7	156.8	25302.9	25.0	-48.9	99.9	999.9	99.9	99.9	99.9	644.1	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 692
RAPID CITY, SOUTH DAKOTA

27 MAY 1977
1750 GMT

185 13. 0

TIME MIN.	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.8	956.0	993.0	21.1	8.4	150.0	8.2	-4.1	7.1	303.8	325.4	7.4	44.0	0.0	0.
99.9	99.9	99.9	1003.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	900.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.7	16.4	1151.3	875.0	19.7	2.0	140.7	6.5*	-4.2	5.1	304.3	318.7	8.1	30.7	0.3	324.
1.7	18.5	1399.6	850.0	17.1	1.7	146.5	7.9	-4.3	6.5	304.9	318.3	4.9	33.6	0.7	323.
2.6	20.9	1659.3	825.0	14.8	0.3	140.2	6.9	-2.3	6.5	304.3	317.9	4.9	37.1	1.1	320.
3.6	23.1	1912.7	800.0	12.1	-0.3	141.9	6.4	0.2	6.4	304.2	317.7	4.7	41.9	1.5	333.
4.7	25.4	2177.4	775.0	10.1	-1.1	307.7	4.2	2.9	5.5	304.7	317.8	4.6	45.7	1.8	341.
5.8	27.6	2443.0	750.0	7.6	-2.0	234.9	7.0	5.9	3.4	304.9	317.6	4.4	50.8	2.1	351.
6.9	30.2	2727.2	725.0	5.2	-4.4	251.1	8.5	8.1	2.8	305.2	316.7	3.8	49.9	2.2	3.
7.9	32.7	3012.4	700.0	2.6	-6.5	253.2	9.6	9.2	3.8	305.4	315.3	3.4	51.1	2.5	10.
8.9	35.3	3305.5	675.0	0.9	-12.8	253.0	9.8	9.4	2.9	306.6	313.3	2.2	26.5	2.9	27.
9.9	37.7	3609.7	650.0	-0.4	-21.5	249.4	9.9	9.3	3.5	308.3	311.7	1.1	18.7	3.3	34.
11.0	40.4	3920.7	625.0	-2.9	-24.9	241.1	9.0	7.9	4.4	309.7	311.9	0.8	16.2	3.8	39.
12.3	43.0	4242.2	600.0	-4.9	-28.8	238.9	10.0	8.5	5.2	310.5	312.4	0.6	13.3	4.8	42.
13.5	45.9	4575.3	575.0	-7.1	-30.4	247.4	11.6	10.4	5.2	311.7	313.4	0.5	13.5	5.3	45.
14.9	48.9	4920.0	550.0	-9.9	-29.6	260.9	11.4	10.0	5.6	312.4	314.4	0.6	16.0	6.2	48.
16.0	51.6	5276.9	525.0	-12.7	-32.3	729.7	10.7	7.9	6.6	313.2	314.8	0.5	17.4	6.9	48.
17.4	54.7	5647.0	500.0	-15.5	-34.9	227.0	7.9	5.3	5.8	314.1	315.5	0.4	17.0	7.6	48.
18.8	57.6	6031.8	475.0	-19.0	-37.8	214.9	7.8	4.9	6.1	314.5	315.5	0.3	17.1	8.3	47.
20.4	61.0	6431.5	450.0	-22.5	-40.0	214.8	6.0	3.6	4.8	315.0	315.9	0.3	18.3	9.0	47.
21.9	64.4	6848.3	425.0	-25.9	-42.8	191.0	4.2	0.8	4.2	315.9	316.5	0.2	18.6	9.4	46.
23.5	67.7	7286.4	400.0	-29.0	-46.2	164.8	8.4	2.2	8.2	317.9	317.9	0.1	17.1	9.8	44.
25.1	71.2	7747.9	375.0	-30.7	-49.0	193.4	14.0	3.3	13.6	321.0	321.4	0.1	14.8	10.8	42.
26.8	75.0	8239.4	350.0	-34.9	-52.1	183.3	14.9	1.0	14.9	321.7	322.1	0.1	15.3	12.2	37.
28.4	79.0	8743.4	325.0	-38.0	-56.2	171.2	25.6	-3.9	25.3	324.4	324.7	0.1	16.1	13.7	32.
30.0	83.0	9291.3	300.0	-41.2	99.9	162.5	36.5	-11.0	34.8	327.3	999.9	99.9	999.9	16.0	28.
31.9	87.2	9877.8	275.0	-45.5	99.9	158.6	43.1	-15.8	40.1	329.1	999.9	99.9	999.9	19.4	18.
33.9	91.8	10505.5	250.0	-50.9	99.9	163.9	39.6	-11.0	38.1	330.5	999.9	99.9	999.9	23.9	8.
35.9	96.5	11197.3	225.0	-52.0	99.9	174.3	30.7	-3.0	30.5	338.8	999.9	99.9	999.9	28.8	5.
38.1	101.8	11956.0	200.0	-49.5	99.9	174.5	22.8	-2.2	22.7	354.4	999.9	99.9	999.9	31.8	4.
40.0	107.8	12771.8	175.0	-49.0	99.9	168.9	15.7	2.6	16.5	369.1	999.9	99.9	999.9	34.8	3.
43.9	113.9	13675.6	150.0	-52.1	99.9	206.3	14.6	6.5	13.1	380.2	999.9	99.9	999.9	37.3	4.
47.4	120.7	15011.9	125.0	-54.1	99.9	202.4	10.5	4.0	9.7	397.0	999.9	99.9	999.9	39.5	6.
51.4	128.3	16434.4	100.0	-55.8	99.9	191.1	8.8	1.7	8.7	419.9	999.9	99.9	999.9	41.7	6.
56.4	136.8	18295.8	75.0	-56.4	99.9	164.5	6.3	-1.7	6.1	454.6	999.9	99.9	999.9	43.5	7.
59.2	145.0	20837.8	50.0	-54.5	99.9	108.3	6.7	-6.4	2.1	515.8	999.9	99.9	999.9	45.2	6.
76.9	154.0	25302.4	25.0	-49.5	99.9	999.9	999.9	99.9	99.9	642.5	999.9	99.9	999.9	46.0	357.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 11031
MARSHALL SFC, ALABAMA

27 MAY 1977
1745 GMT

131 35. 0

TIME MIN	CNTCT	WEIGHT GPM	PRES MB	TEMP DG C	DPN PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	%.9	180.0	990.6	25.0	18.9	100.0	3.1	-3.1	0.5	299.0	336.1	14.1	66.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.4	7.3	319.5	975.0	22.1	13.9	999.9	999.9	99.9	99.9	297.5	324.9	10.3	56.8	999.9	999.
1.4	9.3	547.8	950.0	20.6	13.3	999.9	999.9	99.9	99.9	299.1	325.2	10.2	62.9	999.9	999.
3.3	11.0	773.4	925.0	17.4	11.4	134.4	3.4	-2.4	2.4	297.2	321.9	9.2	67.8	0.5	306.
5.3	12.9	1007.2	900.0	15.6	9.4	131.4	2.6	-1.9	1.7	297.6	320.5	8.5	68.0	0.7	307.
4.7	15.0	1244.1	875.0	14.1	8.8	125.4	2.4	-1.9	1.4	298.5	322.0	8.7	70.0	0.9	308.
5.4	16.9	1490.7	850.0	11.9	6.8	102.0	1.9	-1.8	0.4	298.7	318.7	7.4	71.0	1.0	307.
6.5	18.9	1741.0	825.0	12.4	4.7	97.7	1.4	-1.4	0.2	301.7	319.8	6.5	56.4	1.1	303.
7.4	20.9	1994.3	800.0	10.2	2.9	151.3	1.4	-0.7	1.2	302.0	318.5	5.9	60.4	1.1	305.
9.4	23.0	2241.9	775.0	8.7	1.5	110.5	1.1	-1.1	0.4	303.2	318.9	5.5	60.3	1.2	304.
9.7	25.1	2532.4	750.0	5.4	0.3	310.4	0.4	0.3	-0.2	303.6	318.4	5.2	65.0	1.2	304.
10.9	27.2	2810.2	725.0	5.5	-1.2	72.1	1.4	-1.3	-0.5	305.8	319.4	4.9	62.9	1.3	301.
12.1	29.5	3074.8	700.0	4.0	-3.0	86.8	3.4	-3.4	-0.2	306.9	319.7	4.4	60.4	1.4	297.
13.3	31.6	3332.0	675.0	2.5	-5.2	83.6	4.0	-4.0	-0.4	309.4	319.8	3.8	56.7	1.7	292.
14.5	34.1	3636.0	650.0	0.5	-7.2	88.2	4.4	-4.4	-0.1	309.5	319.7	3.4	56.1	1.9	288.
15.8	35.4	4003.9	625.0	-1.9	-8.7	87.0	6.9	-6.8	-0.4	310.4	319.9	3.2	59.0	2.3	285.
17.0	38.9	4334.1	600.0	-2.7	-10.3	80.7	10.1	10.0	-1.6	313.0	321.5	2.9	56.0	2.9	280.
18.6	41.2	4671.5	575.0	-3.0	-13.0	76.5	10.8	-10.5	-2.5	315.5	324.1	2.5	46.1	3.6	276.
20.2	43.7	5022.5	550.0	-4.6	-25.8	89.9	10.4	-10.4	-0.0	318.6	321.6	0.9	18.1	4.9	272.
21.7	46.4	5387.1	525.0	-7.0	-29.0	96.7	11.0	-10.9	1.3	320.0	322.3	0.7	15.3	5.8	272.
23.4	49.1	5745.7	500.0	-6.4	-23.0	87.9	9.2	-9.2	-0.3	321.5	325.5	1.2	22.0	6.8	273.
25.0	51.9	6160.1	475.0	-11.5	-32.7	59.0	6.9	-5.9	-3.6	323.9	325.6	0.5	15.5	7.5	271.
26.8	55.0	6572.5	450.0	-14.4	-36.0	38.2	5.6	-3.4	-4.4	325.1	326.5	0.4	14.0	7.9	268.
28.6	57.9	7007.8	425.0	-17.2	-37.7	47.4	5.6	-4.1	-3.8	326.9	328.2	0.3	14.7	8.4	265.
30.5	60.9	7454.9	400.0	-21.1	-37.3	14.5	2.8	-0.9	-2.6	327.6	328.9	0.4	21.6	8.6	263.
32.6	64.3	7927.8	375.0	-24.9	-39.9	319.4	2.9	1.9	-2.2	329.7	329.8	0.2	22.6	8.7	261.
34.7	67.8	8425.5	350.0	-28.1	-42.6	353.7	2.5	0.3	-2.4	329.8	330.4	0.2	22.9	8.5	259.
37.1	71.1	8950.3	325.0	-33.5	-47.9	32.7	1.7	-0.9	-1.5	330.5	331.1	0.1	21.6	8.7	257.
39.3	74.9	9504.8	300.0	-38.2	-52.4	128.6	1.6	-1.3	1.0	331.5	331.9	0.1	20.7	8.8	257.
41.5	78.9	10099.0	275.0	-42.5	99.9	155.0	3.2	-1.3	2.9	332.3	999.9	99.9	999.9	8.9	259.
44.2	83.0	10737.0	250.0	-49.3	99.9	169.6	3.8	-0.6	3.5	332.8	999.9	99.9	999.9	9.0	263.
47.0	87.4	11416.1	225.0	-54.7	99.9	159.9	2.5	-0.9	2.4	334.7	999.9	99.9	999.9	9.0	266.
49.5	92.0	12157.5	200.0	-59.7	99.9	233.1	4.9	3.9	2.9	338.2	999.9	99.9	999.9	9.0	268.
52.5	97.2	12979.8	175.0	-65.8	99.9	292.7	5.1	4.9	-2.1	341.4	999.9	99.9	999.9	7.7	269.
56.0	102.8	13926.4	150.0	-62.0	99.9	320.2	4.5	2.9	-3.5	343.3	999.9	99.9	999.9	7.2	263.
60.3	109.0	15059.1	125.0	-61.1	99.9	344.2	3.1	0.8	-3.0	384.4	999.9	99.9	999.9	6.7	257.
65.3	115.5	16439.4	100.0	-62.2	99.9	278.6	2.8	2.8	-0.4	407.5	999.9	99.9	999.9	6.8	253.
71.7	122.5	18215.1	75.0	-61.8	99.9	352.0	3.6	0.5	-3.5	443.4	999.9	99.9	999.9	6.3	241.
81.0	130.3	20754.6	50.0	-57.2	99.9	149.4	4.8	-2.5	4.2	508.8	999.9	99.9	999.9	7.2	239.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

Sounding Data

27 May 1977

2000 GMT

STATION NO. 229
CENTERVILLE, ALABAMA

27 MAY 1977
2103 GMT

151 13. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	0.0	180.0	992.2	27.0	18.0	60.0	5.7	-4.9	-2.8	300.8	336.2	13.3	58.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.7	9.4	294.2	975.0	25.5	19.1	37.4	5.0	-3.0	-4.0	300.3	337.1	13.8	63.8	0.2	222.
1.6	10.5	522.9	950.0	23.8	17.2	35.5	4.1	-2.4	-3.4	300.3	335.2	13.1	70.7	0.4	215.
2.7	12.8	758.2	925.0	20.2	16.7	23.5	3.3	-1.3	-3.0	300.0	334.8	13.1	80.5	0.7	216.
3.7	15.1	990.8	900.0	18.3	16.0	13.2	3.0	-0.7	-3.0	300.4	334.7	12.9	86.3	0.9	213.
4.5	17.3	1222.5	875.0	16.8	13.5	342.3	2.9.	0.9	-2.8	301.3	331.6	11.3	80.9	1.0	208.
5.5	19.8	1470.6	850.0	15.3	12.0	317.6	3.4	2.5	-2.3	302.2	330.5	10.4	80.5	1.1	199.
6.4	22.2	1732.8	825.0	13.7	10.7	302.2	4.0	3.4	-2.1	303.1	330.0	9.9	82.1	1.1	190.
7.5	24.5	1992.1	800.0	11.9	9.5	291.6	3.7	3.7	-0.8	303.7	329.5	9.4	85.6	1.2	177.
8.5	26.9	2257.9	775.0	10.1	7.7	267.0	4.0	4.0	0.5	304.7	329.4	8.8	84.8	1.3	167.
9.5	29.4	2530.5	750.0	8.2	6.7	267.9	4.5	4.5	0.2	305.5	328.4	8.2	90.0	1.3	157.
10.5	32.1	2810.1	725.0	6.7	2.6	276.2	4.6	4.6	-0.5	305.9	325.0	6.4	74.8	1.5	146.
11.7	34.8	3098.2	700.0	5.1	1.4	288.9	4.4	4.1	-1.4	308.1	325.5	6.1	77.2	1.7	136.
12.8	37.3	3395.1	675.0	3.8	-0.3	298.7	5.3	4.7	-2.5	309.9	326.1	5.6	74.8	2.0	135.
13.8	40.1	3701.1	650.0	2.0	-0.6	296.6	5.7	5.1	-2.6	311.2	327.7	5.6	82.7	2.3	133.
14.9	42.8	4016.8	625.0	-0.7	-2.1	298.1	6.0	5.7	-1.9	312.2	327.6	5.3	87.3	2.7	130.
15.2	45.9	4342.0	600.0	-2.0	-3.8	280.4	6.3	6.2	-1.1	313.9	328.2	4.8	87.8	3.1	126.
17.5	48.9	4680.9	575.0	-3.9	-4.4	277.7	7.1	7.0	-0.9	315.5	329.9	4.8	88.8	3.6	122.
18.8	51.6	5031.0	550.0	-6.7	-9.2	288.9	7.3	6.9	-2.4	316.7	327.3	3.5	75.6	4.1	119.
20.2	54.9	5393.8	525.0	-7.9	-14.9	290.3	9.3	8.1	-4.5	319.0	326.2	2.3	56.7	4.8	119.
21.7	57.9	5779.5	500.0	-6.7	-19.3	297.7	8.7	7.7	-4.1	321.3	327.2	1.7	43.7	5.6	116.
23.1	61.1	6169.0	475.0	-11.0	-25.0	299.1	5.6	5.0	-2.7	324.4	325.3	0.4	11.7	6.2	119.
23.5	64.6	6581.2	450.0	-14.1	-28.1	314.7	4.3	3.0	-3.0	325.3	328.4	0.8	26.2	6.6	116.
25.1	67.9	7012.5	425.0	-17.4	-30.4	326.9	4.3	2.3	-3.6	326.6	329.1	0.7	21.1	7.0	121.
27.0	71.3	7467.8	400.0	-21.1	-30.8	333.7	1.6	1.6	-3.2	327.6	330.2	0.7	40.9	7.4	122.
29.7	75.1	7936.7	375.0	-24.8	-36.1	335.0	2.7	1.1	-2.4	328.9	330.4	0.5	34.0	7.6	123.
31.4	79.0	8433.7	350.0	-29.4	-39.9	301.7	3.4	2.9	-1.8	329.1	330.3	0.3	35.0	8.0	124.
33.5	83.0	8958.9	325.0	-33.6	-44.8	259.5	2.4	2.4	0.4	330.4	331.2	0.2	30.5	8.2	123.
35.4	87.0	9515.9	300.0	-37.9	-49.9	188.7	3.0	0.5	3.0	331.9	332.4	0.1	26.9	8.3	122.
37.4	91.6	10109.1	275.0	-43.7	99.9	197.8	5.3	1.2	5.2	332.5	999.9	99.9	999.9	8.1	118.
40.1	96.2	10743.6	250.0	-48.1	99.9	229.5	8.2	5.2	6.3	334.6	999.9	99.9	999.9	8.1	112.
42.9	101.0	11429.2	225.0	-53.3	99.9	262.8	9.6	9.2	2.8	336.9	999.9	99.9	999.9	9.3	106.
45.4	106.3	12177.7	200.0	-59.9	99.9	255.4	11.6	11.3	2.9	338.2	999.9	99.9	999.9	10.7	101.
48.7	111.8	13000.1	175.0	-64.7	99.9	271.1	11.2	11.2	-0.6	343.2	999.9	99.9	999.9	13.0	98.
52.2	117.9	13907.1	150.0	-69.6	99.9	281.0	6.7	6.3	-2.4	350.5	999.9	99.9	999.9	14.9	98.
55.3	124.5	14909.0	125.0	-69.5	99.9	281.3	7.0	6.9	-2.5	381.8	999.9	99.9	999.9	16.1	100.
61.4	131.3	16443.7	100.0	-69.3	99.9	297.0	7.5	6.7	-3.4	405.4	999.9	99.9	999.9	18.4	101.
67.6	138.5	19205.0	75.0	-65.6	99.9	2.4	3.5	-0.1	-3.5	435.4	999.9	99.9	999.9	20.0	103.
75.3	145.5	20733.7	50.0	-60.0	99.9	85.2	3.8	-3.8	0.3	504.7	999.9	99.9	999.9	19.2	108.
90.8	152.7	24206.4	25.0	-47.6	99.9	999.9	999.9	99.9	99.9	648.3	999.9	99.9	999.9	17.2	110.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 235
JACKSON, MISSISSIPPI

27 MAY 1977
2000 GMT

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TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE NM	AZ DG
0.0	0.2	100.0	996.7	30.3	18.4	300.0	2.4	2.3	-1.3	303.7	340.2	13.5	46.8	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	·999.9	·999.
0.6	9.0	294.3	975.3	27.4	14.1	323.4	2.3	1.4	-1.8	302.7	339.1	12.5	57.0	0.1	156.
1.4	10.1	523.9	950.0	25.0	14.5	313.0	2.8	2.0	-1.9	302.6	336.4	12.6	59.2	0.3	150.
2.7	12.2	769.6	925.0	22.7	15.1	291.6	3.4	3.1	-1.2	302.6	334.4	11.8	61.9	0.5	138.
3.6	14.5	997.8	900.0	20.5	14.1	285.7	3.9	3.7	-1.1	302.7	333.4	11.4	66.7	0.7	128.
4.4	16.5	1241.0	875.0	18.6	13.2	291.0	4.0	3.7	-1.4	303.1	333.0	11.0	70.5	0.8	123.
5.2	18.8	1487.4	850.0	16.4	11.5	288.1	3.9	3.7	-1.2	303.4	331.1	10.1	72.4	1.0	121.
5.9	21.0	1743.2	825.0	14.6	11.1	289.3	3.9	3.7	-1.3	303.9	331.7	10.1	76.8	1.2	119.
7.2	23.4	2003.2	800.0	12.5	9.2	292.7	3.8	3.5	-1.5	304.5	329.8	9.2	80.3	1.5	117.
8.4	25.9	2269.4	775.0	10.5	7.8	295.2	4.0	3.3	-2.3	305.1	328.9	8.6	83.2	1.8	117.
9.4	28.2	2541.0	750.0	8.2	4.6	307.9	4.6	3.7	-2.9	305.5	328.9	8.4	91.4	2.0	119.
10.7	30.8	2822.0	725.0	6.4	4.5	309.4	6.5	5.1	-4.1	306.7	327.4	7.3	86.5	2.4	120.
11.9	33.4	3109.7	700.0	5.0	1.1	317.5	9.9	6.9	-6.5	308.1	325.1	5.9	75.5	3.0	122.
13.2	36.0	3405.8	675.0	1.3	-1.1	319.3	10.0	6.5	-7.6	309.4	324.6	5.2	72.4	3.6	126.
14.3	38.9	3711.9	650.0	-2.5	-4.3	320.1	11.9	7.5	-9.1	311.9	324.5	4.3	66.8	4.4	128.
15.4	41.4	4029.0	625.0	-5.3	-8.5	323.9	13.7	7.9	-10.8	313.9	323.7	3.2	48.1	5.5	131.
16.9	44.3	4356.2	600.0	-8.5	-9.2	330.0	13.4	6.7	-11.6	314.4	324.1	3.2	55.7	6.4	133.
18.1	47.4	4698.2	575.0	-9.0	-19.6	334.5	12.4	4.6	-11.5	316.5	321.1	1.4	26.3	7.2	136.
19.3	50.4	5045.1	550.0	-7.0	-22.7	331.0	11.7	5.5	-9.9	319.2	322.0	1.2	24.1	8.0	134.
20.4	53.4	5409.4	525.0	-7.7	-28.1	315.6	11.4	9.0	-8.2	320.4	322.8	0.7	16.2	8.6	135.
22.0	56.4	5793.0	500.0	-8.9	-34.6	307.5	12.2	9.7	-7.4	321.1	322.5	0.4	11.1	9.3	135.
23.5	59.9	6191.4	475.0	-12.6	-33.3	301.6	9.8	8.5	-5.2	322.3	324.6	0.7	21.5	10.9	137.
25.3	63.3	6602.6	450.0	-15.3	-35.2	309.0	7.3	5.9	-4.5	324.0	327.7	1.1	42.3	11.7	136.
26.3	66.7	7031.7	425.0	-19.7	-26.0	309.4	5.9	4.5	-3.7	325.0	329.6	1.1	52.7	12.4	135.
28.5	70.4	7479.5	400.0	-22.4	-28.6	291.4	5.8	5.0	-1.2	325.9	328.7	0.8	51.6	12.9	135.
30.2	74.3	7941.0	375.0	-20.1	-33.5	258.1	5.3	6.7	1.4	327.1	329.2	0.6	49.4	13.4	133.
32.1	78.3	8427.3	350.0	-22.7	-40.6	248.4	5.9	5.5	2.1	328.7	329.8	0.3	33.5	13.7	130.
34.1	82.7	8941.7	325.0	-27.7	-44.0	244.6	5.4	4.9	2.3	330.2	331.1	0.2	34.3	14.0	128.
36.2	85.6	9519.0	300.0	-32.1	-44.7	220.2	5.1	3.9	3.3	331.7	332.2	0.1	31.4	14.2	125.
38.3	91.3	10110.6	275.0	-43.0	99.9	219.1	4.7	2.9	3.6	333.0	999.9	99.9	999.9	14.3	123.
40.6	96.2	10746.4	250.0	-47.6	99.9	223.5	5.7	3.9	4.1	335.1	999.9	99.9	999.9	14.4	120.
43.1	101.2	11433.2	225.0	-53.7	99.9	232.0	7.3	6.2	3.7	336.2	999.9	99.9	999.9	14.9	117.
45.8	106.8	12183.5	200.0	-58.4	99.9	253.3	9.3	8.9	2.7	340.3	999.9	99.9	999.9	15.7	113.
48.6	112.5	13013.6	175.0	-63.4	99.9	281.5	11.3	10.7	-2.6	345.3	999.9	99.9	999.9	17.3	110.
52.0	118.5	13957.6	150.0	-60.5	99.9	278.7	9.7	9.6	-1.0	365.9	999.9	99.9	999.9	19.1	110.
55.7	125.0	15045.3	125.0	-61.2	99.9	296.0	10.0	9.6	-2.8	340.6	999.9	99.9	999.9	20.6	109.
60.4	131.5	16457.7	100.0	-63.7	99.9	226.5	4.1	3.0	2.9	404.7	999.9	99.9	999.9	22.4	110.
65.9	138.0	18210.6	75.0	-64.4	99.9	119.3	3.4	2.3	-2.6	439.0	999.9	99.9	999.9	23.2	109.
73.6	144.3	20326.0	50.0	-58.9	99.9	99.0	3.6	-3.5	0.6	504.9	999.9	99.9	999.9	22.9	111.
85.3	150.9	25174.2	25.0	-50.4	99.9	999.9	999.9	99.9	99.9	640.5	999.9	99.9	999.9	20.8	112.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

ORIGINAL PAGE IS
OF POOR QUALITY

STATION NO. 240
LAKE CHARLES, LOUISIANA

27 MAY 1977
2003 GMT

154 30. 0

TIME MIN.	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	5.2	5.0	1008.5	31.1	21.0	290.0	4.1	3.9	-1.4	303.5	345.7	15.7	55.0	0.0	0.
0.3	5.8	81.0	1000.0	29.8	20.4	226.0	4.1	2.9	2.9	302.9	343.9	15.3	57.1	0.1	19.
1.0	9.0	305.7	975.0	27.8	19.6	218.1	3.8	1.7	2.2	303.1	343.1	14.9	61.0	0.3	28.
2.1	10.2	536.8	950.0	25.4	18.6	250.8	3.6	3.4	1.2	302.9	341.5	14.4	66.1	0.4	38.
3.2	12.4	770.8	925.0	22.8	17.4	244.4	3.6	3.6	0.2	302.6	339.4	13.7	71.6	0.6	52.
4.5	14.7	1005.2	900.0	20.5	16.4	303.3	3.5	2.9	-1.9	302.9	338.2	13.1	76.5	0.9	65.
5.6	16.9	1242.7	875.0	18.0	14.3	319.7	3.8	2.5	-2.9	303.4	335.6	11.9	75.0	0.9	80.
6.5	19.3	1481.4	850.0	16.8	12.5	329.9	4.6	2.7	-3.8	303.7	333.3	10.9	76.2	1.1	92.
7.6	21.6	1726.0	825.0	15.5	9.0	322.0	5.9	3.6	-4.6	305.0	329.5	8.9	65.2	1.3	104.
8.5	24.1	2014.7	800.0	14.6	4.6	316.0	7.0	5.5	-5.7	306.7	325.7	6.7	51.0	1.6	112.
9.5	26.6	2288.8	775.0	13.1	1.5	321.0	8.2	5.2	-6.4	307.9	323.8	5.5	45.4	2.1	117.
10.5	29.0	2550.7	750.0	11.7	-3.5	320.2	8.4	6.3	-7.2	309.3	320.9	3.9	39.2	2.5	123.
11.6	31.7	2843.9	725.0	11.0	-9.9	327.0	10.4	5.7	-8.7	311.6	319.2	2.5	22.1	3.1	128.
12.6	34.3	3134.5	700.0	8.7	-6.7	326.6	11.2	6.2	-9.4	312.1	322.1	3.3	32.0	3.7	131.
13.9	36.9	3434.2	675.0	6.6	-4.3	331.2	11.5	5.5	-10.1	313.0	325.3	4.1	46.0	4.5	134.
14.9	39.7	3743.4	650.0	3.7	-4.5	337.4	10.5	4.1	-9.7	313.1	325.7	4.2	54.9	5.2	137.
16.2	42.3	4060.1	625.0	1.4	-4.7	339.2	8.4	3.1	-7.8	314.1	327.1	4.3	63.7	5.8	140.
17.5	45.3	4387.6	600.0	-1.1	-7.7	336.5	7.7	4.2	-6.4	314.8	325.7	3.6	60.9	6.5	141.
19.0	48.3	4726.6	575.0	-3.0	-9.4	298.8	8.3	7.3	-4.0	316.5	326.6	3.3	61.2	7.1	140.
20.5	51.1	5077.6	550.0	-4.5	-12.4	287.7	12.5	11.9	-3.3	318.4	326.8	2.7	55.0	7.9	137.
21.9	54.3	5441.9	525.0	-7.5	-11.8	290.7	15.2	14.2	-5.4	319.4	328.6	2.9	71.2	9.0	133.
23.2	57.3	5820.3	500.0	-10.2	-14.1	293.2	15.1	13.9	-5.9	320.6	328.7	2.6	72.9	10.1	131.
24.7	60.7	6214.3	475.0	-12.2	-20.6	290.6	15.3	14.3	-5.4	322.9	328.1	1.6	45.6	11.4	129.
25.0	64.1	6625.1	450.0	-14.1	-23.8	292.0	16.5	15.3	-6.2	323.0	327.1	1.2	51.2	12.6	127.
27.5	67.5	7052.6	425.0	-19.9	-20.2	295.9	16.2	14.6	-7.1	323.5	326.1	0.7	35.7	14.1	125.
29.2	71.0	7500.1	400.0	-22.7	-24.2	300.0	17.4	15.1	-8.7	325.5	325.8	0.1	3.7	15.7	125.
30.9	74.9	7970.1	375.0	-26.5	-25.2	300.7	15.8	14.4	-6.5	326.8	326.8	0.1	4.7	17.6	124.
32.8	78.8	8466.1	350.0	-30.9	-25.9	299.5	13.3	13.3	-7.5	327.1	327.3	0.1	6.5	19.4	124.
34.8	82.8	8935.1	325.0	-35.6	-43.5	250.1	13.1	12.3	-4.5	327.6	328.5	0.2	44.2	21.0	123.
36.9	87.0	9437.5	300.0	-39.6	-50.2	277.1	10.3	10.7	-1.3	329.5	330.0	0.1	31.1	22.4	122.
38.9	91.5	10136.7	275.0	-44.3	99.9	362.3	9.7	9.7	1.1	331.0	999.9	99.9	999.9	23.4	120.
41.2	96.4	10750.9	250.0	-48.3	99.9	279.0	16.1	15.9	-2.5	334.7	999.9	99.9	999.9	24.7	119.
43.6	101.3	11452.8	225.0	-50.1	99.9	296.0	23.2	20.9	-10.2	341.8	999.9	99.9	999.9	27.8	118.
45.1	107.0	12213.2	200.0	-55.2	99.9	301.4	23.2	19.8	-12.1	345.4	999.9	99.9	999.9	31.2	118.
49.8	112.8	13050.7	175.0	-59.1	99.9	301.7	22.3	18.9	-11.7	352.4	999.9	99.9	999.9	35.0	118.
52.1	119.3	14017.9	150.0	-61.5	99.9	295.8	21.3	19.2	-9.3	364.2	999.9	99.9	999.9	39.1	118.
55.7	126.3	15146.0	125.0	-61.8	99.9	297.7	15.2	13.4	-7.0	383.2	999.9	99.9	999.9	43.2	118.
60.2	134.7	16518.4	100.0	-64.2	99.9	291.1	9.5	7.9	-5.0	403.7	999.9	99.9	999.9	46.5	118.
65.4	142.3	18268.8	75.0	-66.7	99.9	343.4	4.0	1.2	-3.9	433.0	999.9	99.9	999.9	47.7	118.
73.1	151.0	20781.3	50.0	-57.8	99.9	8.5	4.2	-0.6	-4.1	507.3	999.9	99.9	999.9	47.3	120.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 247
LONGVIEW, TEXAS

27 MAY 1977
2000 GMT

158 12. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.0	124.0	999.0	21.7	23.0	80.0	2.1	-2.1	-0.4	305.3	353.9	18.1	60.0	0.0	0.
99.0	99.0	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.7	8.0	705.8	975.0	24.2	17.5	999.9	999.9	99.9	99.9	303.5	338.8	13.1	52.4	999.9	999.
1.4	11.1	535.1	950.0	26.0	16.5	999.9	999.9	99.9	99.9	303.6	338.3	12.9	57.1	999.9	999.
2.1	13.5	770.7	925.0	23.7	15.7	999.9	999.9	99.9	99.9	303.5	336.6	12.2	60.8	999.9	999.
2.8	15.4	1009.8	900.0	21.3	14.9	47.5	1.3	-1.0	-0.9	303.5	335.9	12.0	67.0	0.3	265.
3.7	18.7	1253.5	875.0	18.5	14.2	90.3	1.1	-1.1	0.0	303.1	335.0	11.9	75.8	0.3	263.
4.8	20.7	1502.1	850.0	16.6	14.5	175.4	1.7	-0.1	1.7	303.6	337.0	12.4	87.3	0.4	267.
5.8	23.2	1756.4	825.0	14.5	12.3	235.2	3.0	2.2	2.1	304.0	334.0	11.0	86.5	0.3	290.
6.5	25.7	2014.4	800.0	12.7	7.7	254.6	3.2	3.1	0.9	304.7	327.7	8.3	71.4	0.2	333.
7.7	28.2	2282.6	775.0	10.9	1.8	281.8	3.4	3.3	-0.7	305.5	321.6	5.7	53.4	0.2	30.
8.8	31.0	2556.1	750.0	10.0	-7.0	317.7	2.8	1.9	-2.1	309.4	317.4	3.0	27.7	0.3	72.
9.8	33.4	2838.0	725.0	9.0	-3.8	284.9	4.6	3.9	-1.2	309.4	321.1	4.0	40.0	0.4	91.
10.8	36.3	3128.4	700.0	8.7	-2.1	271.5	7.4	7.4	-0.2	312.1	326.0	4.7	46.6	0.5	91.
12.0	39.1	3428.3	675.0	7.0	-4.6	274.4	7.7	7.7	-0.6	313.5	325.5	4.0	43.3	1.4	92.
13.2	41.9	3734.9	650.0	4.0	-9.5	279.7	6.4	6.4	-1.1	313.5	322.0	2.9	35.3	1.8	93.
14.3	44.1	4054.4	625.0	0.9	-11.8	287.2	8.9	8.4	-2.6	313.5	321.2	2.5	38.0	2.3	95.
15.6	48.0	4380.9	600.0	-1.9	-14.7	290.3	11.6	10.9	-4.1	313.9	320.2	2.0	36.7	3.1	96.
16.7	50.8	4717.9	575.0	-4.4	-15.3	288.5	13.4	12.7	-4.7	314.4	320.7	2.0	43.4	3.9	101.
18.0	54.0	5065.2	550.0	-8.4	-14.4	287.7	14.3	13.5	-4.3	314.1	321.2	2.3	61.7	5.0	103.
19.4	57.0	5425.2	525.0	-10.3	-13.9	289.1	15.3	14.5	-5.0	316.1	323.8	2.5	74.9	6.2	104.
20.8	60.3	5799.8	500.0	-11.6	-26.4	266.6	17.2	15.6	-7.4	318.9	322.2	1.0	21.9	7.6	105.
22.2	63.2	6191.6	475.0	-13.9	-37.0	310.8	14.3	12.3	-10.6	320.7	321.9	0.3	12.1	9.1	108.
23.8	67.2	6600.0	450.0	-16.9	-39.5	321.7	12.6	10.8	-13.7	322.0	322.9	0.3	12.0	10.4	112.
25.3	70.7	7026.6	425.0	-20.6	-42.1	322.8	13.4	11.1	-14.7	322.8	323.6	0.2	12.4	11.8	116.
26.9	74.4	7472.0	400.0	-24.4	-44.9	318.7	20.7	13.6	-15.5	323.3	323.9	0.2	12.8	13.4	119.
28.5	78.3	7937.9	375.0	-28.6	-46.5	314.8	23.9	14.9	-16.9	323.7	324.3	0.2	15.9	15.5	122.
30.2	82.2	8427.5	350.0	-33.9	-49.4	312.9	27.4	16.7	-15.5	324.6	325.0	0.1	16.7	17.9	123.
32.0	86.2	8944.5	325.0	-37.7	-52.2	314.6	19.1	12.6	-14.4	325.2	325.6	0.1	19.2	20.0	124.
33.9	90.7	9494.7	300.0	-40.9	99.9	317.5	22.9	15.5	-16.9	327.9	999.9	99.9	999.9	22.3	126.
35.9	95.7	10083.5	275.0	-44.2	99.9	312.2	21.9	16.0	-14.5	331.3	999.9	99.9	999.9	25.2	127.
38.1	100.2	10714.0	250.0	-49.4	99.9	305.0	18.9	15.5	-10.8	334.2	999.9	99.9	999.9	27.5	127.
40.2	105.2	11405.8	225.0	-50.9	99.9	305.4	18.4	13.4	-9.5	340.5	999.9	99.9	999.9	30.1	127.
42.6	110.7	12144.7	200.0	-55.8	99.9	311.6	16.9	12.6	-11.2	344.4	999.9	99.9	999.9	32.2	127.
45.6	116.5	13009.9	175.0	-58.2	99.9	333.6	15.0	13.4	-8.1	353.9	999.9	99.9	999.9	34.8	127.
48.9	123.7	13970.7	150.0	-61.8	99.9	302.9	20.5	17.2	-11.1	363.6	999.9	99.9	999.9	38.7	126.
52.8	130.7	15037.2	125.0	-61.9	99.9	302.7	16.0	13.4	-8.6	383.4	999.9	99.9	999.9	42.9	126.
57.5	137.5	16467.8	100.0	-64.9	99.9	313.2	7.6	5.5	-5.2	402.3	999.9	99.9	999.9	46.1	126.
63.1	144.8	18218.9	75.0	-64.7	99.9	337.7	4.4	2.1	-3.7	437.2	999.9	99.9	999.9	47.1	127.
71.4	152.3	20730.7	50.0	-58.7	99.9	296.2	5.3	5.1	-1.5	506.1	999.9	99.9	999.9	47.4	128.
84.9	160.7	25206.0	25.0	-49.4	99.9	999.9	999.9	99.9	99.9	643.3	999.9	99.9	999.9	43.6	126.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 255
VICTORIA, TEXAS

27 MAY 1977
2330 GMT

156 16. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	6.4	77.0	1005.4	26.6	21.8	150.0	6.2	1.1	6.1	302.3	346.5	16.6	83.0	0.0	0.
0.5	5.7	91.0	1003.0	28.5	20.9	177.9	7.1	-0.3	7.0	301.7	343.7	15.8	83.5	0.2	355.
1.0	7.8	105.0	1000.7	28.9	19.8	167.3	7.2	-1.6	7.0	301.1	341.4	15.2	69.9	0.5	349.
1.5	9.3	119.0	998.4	27.5	18.0	173.3	7.2	-0.6	7.2	301.0	340.3	14.9	75.9	0.9	349.
2.0	11.3	133.0	996.0	28.9	18.1	185.0	7.0	0.6	7.0	300.7	338.7	14.3	83.9	1.3	352.
2.5	13.7	147.0	993.7	28.4	18.6	184.1	7.5	0.7	7.4	301.7	339.7	14.3	84.1	1.6	356.
3.0	15.0	161.1	991.3	28.2	18.1	187.9	6.9	0.9	6.9	303.7	322.7	6.9	42.4	2.0	357.
3.5	18.3	175.2	989.0	26.6	-1.7	183.9	6.0	0.8	5.0	306.6	318.2	4.0	23.7	2.3	359.
4.0	20.4	189.2	986.6	26.6	-9.0	213.7	3.5	1.9	2.9	309.2	317.2	2.7	15.6	2.5	0.
4.5	22.5	203.3	984.3	26.6	-15.2	237.8	3.2	2.9	1.2	311.8	316.5	1.5	8.4	2.6	3.
5.0	24.0	217.4	982.0	27.2	-16.2	238.7	3.6	2.9	-0.7	312.9	318.0	1.6	9.9	2.6	7.
5.5	25.1	231.5	979.6	27.2	-16.2	238.7	3.9	2.3	-1.8	313.7	320.4	2.1	14.4	2.6	11.
6.0	25.6	245.6	977.3	26.6	-13.6	233.7	4.5	4.0	-2.3	314.3	325.8	3.8	28.6	2.5	15.
6.5	26.1	259.7	975.0	25.8	-11.0	240.3	7.2	6.8	-2.4	315.0	330.1	5.1	42.5	2.5	24.
7.0	27.1	273.7	972.6	25.3	-9.7	243.0	8.0	7.5	-2.7	315.5	331.6	5.4	51.2	2.6	30.
7.5	28.7	287.8	970.3	24.8	-9.2	247.7	8.3	7.9	-2.5	315.8	330.3	5.0	50.9	2.8	47.
8.0	29.1	301.9	968.0	24.7	-8.2	248.7	8.1	7.9	-2.4	315.9	329.7	4.8	60.5	3.1	55.
8.5	29.3	316.0	965.6	24.3	-8.9	248.1	8.3	8.1	-2.3	315.9	329.7	4.3	65.9	3.5	64.
9.0	29.3	330.0	963.3	24.8	-8.2	248.5	7.7	8.1	-2.3	316.0	329.7	4.3	61.6	4.0	72.
9.5	29.3	344.0	961.0	24.8	-10.8	249.4	11.1	9.8	-3.1	317.4	328.4	2.9	50.2	4.5	80.
10.0	28.7	358.0	958.6	25.3	-11.3	248.1	11.0	9.7	-4.2	317.5	324.8	2.3	40.8	5.2	86.
10.5	28.2	372.1	956.3	25.8	-14.7	247.3	10.9	10.4	-3.2	318.2	325.6	2.3	36.6	6.2	88.
11.0	27.6	386.1	954.0	24.6	-22.6	249.9	11.2	10.4	-4.2	320.1	324.2	1.2	2.3	6.9	92.
11.5	26.1	400.1	951.6	24.2	-17.0	251.0	11.2	9.9	-4.6	321.9	322.2	0.1	1.0	7.8	98.
12.0	25.1	414.1	949.3	24.3	-16.1	249.5	10.7	11.0	-11.2	325.0	325.1	0.0	2.6	8.0	103.
12.5	24.4	428.1	947.0	24.3	-14.3	248.4	10.2	12.0	-11.0	325.2	326.1	0.1	2.1	10.2	107.
13.0	23.9	442.0	944.6	24.3	-13.3	248.4	10.0	12.4	-10.1	327.2	327.4	0.0	2.1	11.5	109.
13.5	23.3	456.0	942.3	24.3	-21.3	247.8	10.7	11.9	-9.6	328.4	328.5	0.0	1.1	13.1	112.
14.0	23.3	470.0	940.0	24.3	-23.1	247.7	10.7	11.3	-14.1	329.3	329.1	0.0	4.1	14.9	117.
14.5	23.4	484.0	937.6	24.3	-24.5	248.1	10.9	10.1	-14.1	331.1	331.3	0.0	6.4	16.9	119.
15.0	23.7	498.0	935.3	24.3	-24.1	247.9	10.9	9.5	-13.7	332.3	332.5	0.0	9.1	17.1	121.
15.5	24.3	512.0	933.0	24.3	-27.7	248.4	11.1	9.4	-14.1	333.0	999.0	99.9	999.9	19.8	125.
16.0	24.7	526.0	930.6	24.3	-28.6	248.4	11.2	9.3	-13.4	335.1	999.0	99.9	999.9	22.2	127.
16.5	25.0	540.0	928.3	24.3	-27.6	248.4	11.2	9.3	-13.4	335.1	999.0	99.9	999.9	24.9	127.
17.0	25.8	554.0	926.0	24.3	-27.3	248.4	11.2	9.3	-13.4	335.1	999.0	99.9	999.9	28.8	124.
17.5	26.8	568.0	923.6	24.3	-27.3	248.4	11.2	9.3	-13.4	335.1	999.0	99.9	999.9	34.0	122.
18.0	27.3	582.0	921.3	24.3	-27.3	248.4	11.2	9.3	-13.4	335.1	999.0	99.9	999.9	39.5	122.
18.5	27.8	596.0	919.0	24.3	-27.3	248.4	11.2	9.3	-13.4	335.1	999.0	99.9	999.9	42.6	120.
19.0	28.1	610.0	916.6	24.3	-27.3	248.4	11.2	9.3	-13.4	335.1	999.0	99.9	999.9	47.1	121.
19.5	28.3	624.0	914.3	24.3	-27.3	248.4	11.2	9.3	-13.4	335.1	999.0	99.9	999.9	48.3	122.
20.0	28.3	638.0	912.0	24.3	-27.3	248.4	11.2	9.3	-13.4	335.1	999.0	99.9	999.9	47.2	122.
20.5	28.4	652.0	909.6	24.3	-27.3	248.4	11.2	9.3	-13.4	335.1	999.0	99.9	999.9	44.8	123.

* HY SPEED MEANS ELEVATION ANGLE BETWEEN 4 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TEMP HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 4 DEG

STATION NO. 266
STEPHENVILLE, TEXAS

27 MAY 1977
2100 GMT

126 92. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	0.0	999.0	969.5	29.6	18.7	180.0	5.1	0.0	5.1	306.1	344.9	14.3	52.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.7	19.9	515.1	950.0	28.1	99.9	160.7	4.2	-1.4	4.0	305.7	999.9	99.9	999.9	0.2	348.
1.3	19.1	751.0	925.0	25.5	17.2	169.4	5.7	-1.2	5.6	305.3	342.1	13.5	60.4	0.4	343.
2.4	15.3	991.0	900.0	22.9	16.5	184.7	7.4	0.6	7.3	305.1	341.2	13.3	67.3	0.8	351.
3.9	17.9	1237.0	875.0	20.6	15.5	195.6	7.6	2.0	7.3	305.2	340.1	12.8	72.7	1.5	359.
4.9	19.9	1487.2	850.0	18.2	14.7	207.4	8.1	3.7	7.2	305.3	339.4	12.5	80.0	1.9	5.
5.9	22.2	1742.0	825.0	16.1	13.1	210.6	8.6	4.4	7.4	305.6	337.4	11.6	82.3	2.4	10.
6.9	24.7	2004.9	800.0	14.0	11.3	212.5	9.7	5.2	8.2	306.0	335.3	10.8	84.8	2.9	14.
7.9	26.9	2272.7	775.0	11.9	3.3	217.7	8.8	4.9	7.3	309.8	328.1	6.4	46.9	3.5	17.
9.8	29.4	2550.5	750.0	14.7	-1.8	219.9	9.1	5.2	6.2	312.5	326.6	4.7	33.9	4.0	20.
10.8	32.1	2836.8	725.0	12.6	-1.6	234.3	7.6	6.2	4.4	313.2	327.2	4.7	37.6	4.5	22.
11.2	34.7	3129.1	700.0	10.9	-2.1	243.0	8.1	7.2	3.7	313.5	327.4	4.7	42.7	4.9	26.
12.4	37.2	3430.4	675.0	7.7	1.0	241.8	9.4	8.2	4.6	314.3	332.3	6.1	62.6	5.4	30.
13.3	40.0	3740.5	650.0	5.6	-3.2	243.7	10.5	9.4	4.7	315.3	329.3	4.7	53.2	5.9	33.
14.6	42.6	4059.7	625.0	2.0	-7.2	249.6	12.5	11.7	4.3	314.7	325.5	3.6	50.5	6.6	37.
15.7	45.4	4387.2	600.0	-0.9	-9.8	269.6	13.6	13.5	1.8	315.2	324.6	3.0	50.6	7.3	41.
16.9	48.4	4726.0	575.0	-3.9	-13.1	267.7	16.0	16.0	0.6	315.5	323.1	2.4	48.5	8.1	47.
18.2	51.1	5075.5	550.0	-6.4	-21.7	265.4	14.5	14.5	1.2	316.5	320.5	1.3	29.6	9.0	52.
19.5	54.3	5438.4	525.0	-8.0	-32.1	267.8	12.9	12.8	1.4	318.8	320.5	0.5	12.3	10.9	55.
21.1	57.1	5815.4	500.0	-10.6	-33.5	282.7	15.3	14.9	-3.4	320.1	321.7	0.4	13.2	11.0	59.
22.7	60.4	6209.5	475.0	-12.3	-33.3	291.7	15.2	16.9	-6.7	322.7	324.4	0.5	15.6	12.1	65.
24.4	63.7	6619.9	450.0	-15.0	-35.6	299.2	19.4	16.9	-9.5	324.4	325.8	0.4	15.2	13.3	71.
25.0	66.9	7049.6	425.0	-19.2	-36.8	302.6	22.7	19.1	-12.2	325.7	327.0	0.4	17.9	14.7	77.
27.4	70.4	7499.0	400.0	-22.1	-39.6	299.5	22.2	19.3	-10.9	326.3	327.3	0.3	18.2	16.1	82.
29.1	74.0	7969.6	375.0	-26.3	-42.7	298.5	21.5	19.2	-9.6	326.7	327.6	0.2	19.4	18.0	86.
30.9	77.9	8464.4	350.0	-30.5	-45.8	299.7	21.2	19.4	-10.5	327.7	328.3	0.2	20.6	20.0	90.
33.0	81.5	8987.2	325.0	-34.6	-48.8	304.2	23.2	19.1	-13.0	329.0	329.5	0.1	21.8	22.4	93.
35.2	85.4	9541.6	300.0	-39.0	-52.5	305.6	24.6	20.8	-14.3	330.5	330.8	0.1	22.1	25.1	97.
37.5	90.0	10132.4	275.0	-43.8	99.9	304.5	28.9	23.8	-16.3	331.9	999.9	99.9	999.9	28.2	101.
39.9	94.6	10765.9	250.0	-48.6	99.9	303.9	27.9	23.2	-15.6	333.8	999.9	99.9	999.9	32.0	104.
42.2	99.2	11454.5	225.0	-52.7	99.9	296.6	19.8	17.7	-8.9	337.8	999.9	99.9	999.9	35.3	108.
45.9	104.4	12209.5	200.0	-57.5	99.9	281.3	22.8	22.4	-4.5	341.7	999.9	99.9	999.9	38.7	105.
49.4	110.2	13041.5	175.0	-61.2	99.9	284.6	26.2	25.4	-6.6	349.9	999.9	99.9	999.9	43.4	105.
51.7	116.0	14004.9	150.0	-60.5	99.9	292.6	22.6	20.9	-8.7	365.8	999.9	99.9	999.9	48.4	105.
55.7	123.3	15131.1	125.0	-63.4	99.9	292.1	17.8	16.3	-6.6	390.2	999.9	99.9	999.9	52.8	106.
60.8	131.0	16493.1	100.0	-66.8	99.9	999.9	99.9	99.9	99.9	400.3	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	75.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	50.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 241
DEL RIO, TEXAS

77 MAY 27
2000 GMT

159 11. 0

TIME MIN	CYCLE	WEIGHT GRS	NOSE FT	TRAN FT	DEL PT FT	DIA FT	SPEED FT/SEC	U COMP FT/SEC	V COMP M/SEC	P/T T DEG K	P PLT T DEG K	MX RTO GM/KG	GH FCT	RANGE KM	AZ DG
0.0	9.1	118.0	672.6	28.7	21.2	110.0	4.1	-1.0	1.4	323.3	326.6	16.6	72.0	0.0	0.
99.3	99.0	83.2	1200.0	86.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	77.3	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.7	11.2	65.8	650.0	25.0	00.0	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
1.4	13.2	55.1	625.0	22.1	21.8	121.8	5.2	-0.4	0.2	323.5	326.8	16.7	72.4	0.2	351.
2.3	15.0	49.4	600.0	20.1	20.6	144.1	6.0	-0.4	0.2	322.6	326.0	17.7	72.4	0.2	351.
3.1	16.8	45.0	575.0	19.1	19.1	142.7	6.0	-0.3	0.1	322.1	325.6	17.7	72.4	0.2	351.
4.0	20.0	41.5	550.0	17.9	17.9	139.0	5.7	-0.2	0.1	321.7	325.3	17.7	72.4	0.2	351.
5.0	23.5	38.6	525.0	16.7	16.7	135.8	5.4	-0.2	0.1	321.3	324.8	17.7	72.4	0.2	351.
5.8	26.0	36.2	500.0	15.6	15.6	132.4	5.1	-0.2	0.1	320.9	324.4	17.7	72.4	0.2	351.
6.5	28.7	33.9	475.0	14.5	14.5	129.0	4.8	-0.2	0.1	320.4	324.0	17.7	72.4	0.2	351.
7.3	31.8	31.8	450.0	13.4	13.4	125.6	4.5	-0.2	0.1	320.0	323.5	17.7	72.4	0.2	351.
8.1	35.2	29.8	425.0	12.3	12.3	122.2	4.2	-0.2	0.1	319.5	323.1	17.7	72.4	0.2	351.
8.9	38.2	28.0	400.0	11.2	11.2	118.8	3.9	-0.2	0.1	319.1	322.6	17.7	72.4	0.2	351.
9.8	41.9	26.3	375.0	10.1	10.1	115.3	3.6	-0.2	0.1	318.6	322.2	17.7	72.4	0.2	351.
10.6	45.4	24.7	350.0	9.0	9.0	111.9	3.3	-0.2	0.1	318.1	321.7	17.7	72.4	0.2	351.
11.5	49.4	23.2	325.0	7.9	7.9	108.4	3.0	-0.2	0.1	317.7	321.2	17.7	72.4	0.2	351.
12.3	53.5	21.8	300.0	6.8	6.8	104.9	2.7	-0.2	0.1	317.2	320.8	17.7	72.4	0.2	351.
13.3	57.8	20.5	275.0	5.7	5.7	101.4	2.4	-0.2	0.1	316.7	320.3	17.7	72.4	0.2	351.
14.2	62.4	19.2	250.0	4.6	4.6	97.9	2.1	-0.2	0.1	316.2	319.8	17.7	72.4	0.2	351.
15.2	67.4	18.0	225.0	3.5	3.5	94.4	1.8	-0.2	0.1	315.7	319.3	17.7	72.4	0.2	351.
16.2	72.8	16.9	200.0	2.4	2.4	90.8	1.5	-0.2	0.1	315.2	318.8	17.7	72.4	0.2	351.
17.2	78.6	15.8	175.0	1.3	1.3	87.2	1.2	-0.2	0.1	314.7	318.3	17.7	72.4	0.2	351.
18.3	84.9	14.8	150.0	0.2	0.2	83.6	0.9	-0.2	0.1	314.2	317.8	17.7	72.4	0.2	351.
19.4	91.7	13.8	125.0	-0.9	-0.9	80.0	0.6	-0.2	0.1	313.7	317.3	17.7	72.4	0.2	351.
20.5	99.0	12.9	100.0	-2.0	-2.0	76.4	0.3	-0.2	0.1	313.2	316.8	17.7	72.4	0.2	351.
21.6	106.9	12.0	75.0	-3.1	-3.1	72.8	0.0	-0.2	0.1	312.7	316.3	17.7	72.4	0.2	351.
22.8	115.4	11.2	50.0	-4.2	-4.2	69.2	-0.3	-0.2	0.1	312.2	315.8	17.7	72.4	0.2	351.
24.0	124.6	10.4	25.0	-5.3	-5.3	65.6	-0.6	-0.2	0.1	311.7	315.3	17.7	72.4	0.2	351.
25.2	134.6	9.6	0.0	-6.4	-6.4	62.0	-0.9	-0.2	0.1	311.2	314.8	17.7	72.4	0.2	351.
26.4	145.3	8.9	-25.0	-7.5	-7.5	58.4	-1.2	-0.2	0.1	310.7	314.3	17.7	72.4	0.2	351.
27.7	156.9	8.2	-50.0	-8.6	-8.6	54.8	-1.5	-0.2	0.1	310.2	313.8	17.7	72.4	0.2	351.
29.0	169.4	7.5	-75.0	-9.7	-9.7	51.2	-1.8	-0.2	0.1	309.7	313.3	17.7	72.4	0.2	351.
30.4	182.8	6.9	-100.0	-10.8	-10.8	47.6	-2.1	-0.2	0.1	309.2	312.8	17.7	72.4	0.2	351.
31.8	197.3	6.3	-125.0	-11.9	-11.9	44.0	-2.4	-0.2	0.1	308.7	312.3	17.7	72.4	0.2	351.
33.3	212.9	5.7	-150.0	-13.0	-13.0	40.4	-2.7	-0.2	0.1	308.2	311.8	17.7	72.4	0.2	351.
34.8	229.6	5.2	-175.0	-14.1	-14.1	36.8	-3.0	-0.2	0.1	307.7	311.3	17.7	72.4	0.2	351.
36.4	247.5	4.7	-200.0	-15.2	-15.2	33.2	-3.3	-0.2	0.1	307.2	310.8	17.7	72.4	0.2	351.
38.0	266.6	4.2	-225.0	-16.3	-16.3	29.6	-3.6	-0.2	0.1	306.7	310.3	17.7	72.4	0.2	351.
39.7	287.0	3.7	-250.0	-17.4	-17.4	26.0	-3.9	-0.2	0.1	306.2	309.8	17.7	72.4	0.2	351.
41.5	308.6	3.3	-275.0	-18.5	-18.5	22.4	-4.2	-0.2	0.1	305.7	309.3	17.7	72.4	0.2	351.
43.3	331.6	2.9	-300.0	-19.6	-19.6	18.8	-4.5	-0.2	0.1	305.2	308.8	17.7	72.4	0.2	351.
45.2	355.9	2.5	-325.0	-20.7	-20.7	15.2	-4.8	-0.2	0.1	304.7	308.3	17.7	72.4	0.2	351.
47.2	381.6	2.1	-350.0	-21.8	-21.8	11.6	-5.1	-0.2	0.1	304.2	307.8	17.7	72.4	0.2	351.
49.3	408.7	1.8	-375.0	-22.9	-22.9	8.0	-5.4	-0.2	0.1	303.7	307.3	17.7	72.4	0.2	351.
51.4	437.2	1.5	-400.0	-24.0	-24.0	4.4	-5.7	-0.2	0.1	303.2	306.8	17.7	72.4	0.2	351.
53.7	467.1	1.2	-425.0	-25.1	-25.1	0.8	-6.0	-0.2	0.1	302.7	306.3	17.7	72.4	0.2	351.
56.1	498.5	0.9	-450.0	-26.2	-26.2	-2.8	-6.3	-0.2	0.1	302.2	305.8	17.7	72.4	0.2	351.
58.7	531.4	0.7	-475.0	-27.3	-27.3	-6.4	-6.6	-0.2	0.1	301.7	305.3	17.7	72.4	0.2	351.
61.4	565.8	0.5	-500.0	-28.4	-28.4	-10.0	-6.9	-0.2	0.1	301.2	304.8	17.7	72.4	0.2	351.
64.2	601.8	0.3	-525.0	-29.5	-29.5	-13.6	-7.2	-0.2	0.1	300.7	304.3	17.7	72.4	0.2	351.
67.2	639.4	0.2	-550.0	-30.6	-30.6	-17.2	-7.5	-0.2	0.1	300.2	303.8	17.7	72.4	0.2	351.
70.3	678.6	0.1	-575.0	-31.7	-31.7	-20.8	-7.8	-0.2	0.1	299.7	303.3	17.7	72.4	0.2	351.
73.6	719.5	0.0	-600.0	-32.8	-32.8	-24.4	-8.1	-0.2	0.1	299.2	302.8	17.7	72.4	0.2	351.
77.0	762.1	0.0	-625.0	-33.9	-33.9	-28.0	-8.4	-0.2	0.1	298.7	302.3	17.7	72.4	0.2	351.
80.6	806.4	0.0	-650.0	-35.0	-35.0	-31.6	-8.7	-0.2	0.1	298.2	301.8	17.7	72.4	0.2	351.
84.4	852.5	0.0	-675.0	-36.1	-36.1	-35.2	-9.0	-0.2	0.1	297.7	301.3	17.7	72.4	0.2	351.
88.3	900.5	0.0	-700.0	-37.2	-37.2	-38.8	-9.3	-0.2	0.1	297.2	300.8	17.7	72.4	0.2	351.
92.4	950.4	0.0	-725.0	-38.3	-38.3	-42.4	-9.6	-0.2	0.1	296.7	300.3	17.7	72.4	0.2	351.
96.7	1002.3	0.0	-750.0	-39.4	-39.4	-46.0	-9.9	-0.2	0.1	296.2	299.8	17.7	72.4	0.2	351.
101.2	1056.2	0.0	-775.0	-40.5	-40.5	-49.6	-10.2	-0.2	0.1	295.7	299.3	17.7	72.4	0.2	351.
105.9	1112.2	0.0	-800.0	-41.6	-41.6	-53.2	-10.5	-0.2	0.1	295.2	298.8	17.7	72.4	0.2	351.
110.8	1170.3	0.0	-825.0	-42.7	-42.7	-56.8	-10.8	-0.2	0.1	294.7	298.3	17.7	72.4	0.2	351.
115.9	1230.6	0.0	-850.0	-43.8	-43.8	-60.4	-11.1	-0.2	0.1	294.2	297.8	17.7	72.4	0.2	351.
121.2	1293.1	0.0	-875.0	-44.9	-44.9	-64.0	-11.4	-0.2	0.1	293.7	297.3	17.7	72.4	0.2	351.
126.7	1357.8	0.0	-900.0	-46.0	-46.0	-67.6	-11.7	-0.2	0.1	293.2	296.8	17.7	72.4	0.2	351.
132.4	1424.8	0.0	-925.0	-47.1	-47.1	-71.2	-12.0	-0.2	0.1	292.7	296.3	17.7	72.4	0.2	351.
138.4	1494.1	0.0	-950.0	-48.2	-48.2	-74.8	-12.3	-0.2	0.1	292.2	295.8	17.7	72.4	0.2	351.
144.6	1565.7	0.0	-975.0	-49.3	-49.3	-78.4	-12.6	-0.2	0.1	291.7	295.3	17.7	72.4	0.2	351.
151.0	1639.6	0.0	-1000.0	-50.4	-50.4	-82.0	-12.9	-0.2	0.1	291.2	294.8	17.7	72.4	0.2	351.
157.6	1715.8	0.0	-1025.0	-51.5	-51.5	-85.6	-13.2	-0.2	0.1	290.7	294.3	17.7	72.4	0.2	351.
164.5	1794.4	0.0	-1050.0	-52.6	-52.6	-89.2	-13.5	-0.2	0.1	290.2	293.8	17.7	72.4	0.2	351.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 7 AND 10 DEG
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 5 DEG

STATION NO. 265
MIDLAND, TEXAS

27 MAY 1977
2015 GMT

140 13. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.9	477.0	988.6	24.4	3.1	250.0	5.7	5.4	1.9	316.1	331.8	5.3	14.0	0.0	0.
99.9	99.9	99.9	1000.3	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.0	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.2	15.4	949.0	900.0	20.5	99.9	245.3	8.4	7.6	3.5	313.0	999.9	99.9	999.9	0.3	77.
1.0	17.9	1289.5	875.0	20.0	4.9	256.6	8.0	7.8	1.9	312.8	331.0	6.2	22.9	0.9	72.
1.9	20.3	1464.2	850.0	25.6	3.8	264.7	8.6	8.6	0.8	313.0	330.3	5.9	24.3	1.8	78.
2.9	22.8	1739.9	825.0	23.2	2.9	267.8	9.2	8.2	0.4	313.1	330.0	5.7	26.5	1.8	81.
3.9	25.2	1912.1	800.0	20.5	1.8	264.8	7.6	7.6	0.7	313.0	329.1	5.5	28.8	1.9	82.
4.9	27.5	2264.0	775.0	18.0	1.2	256.5	7.0	6.9	1.2	313.2	329.1	5.4	32.2	2.4	82.
6.2	30.1	2544.0	750.0	14.9	0.3	246.1	6.5	6.1	1.8	312.9	328.1	5.2	36.7	2.8	81.
7.8	32.8	2820.7	725.0	12.2	0.0	242.4	6.6	5.9	3.0	312.8	328.4	5.3	42.2	3.2	79.
9.5	35.4	3122.6	700.0	9.5	-0.8	242.4	7.6	6.7	3.5	313.1	328.3	5.2	48.4	3.6	77.
9.6	74.0	3421.2	675.0	6.9	-1.7	237.6	8.7	7.4	4.7	313.3	328.2	5.0	54.5	4.0	75.
10.4	40.6	3723.0	650.0	3.8	-2.5	234.9	10.5	8.9	5.7	313.7	327.7	4.9	62.6	4.5	73.
11.9	43.4	4049.5	625.0	2.6	-17.1	251.0	12.1	11.4	3.9	315.4	320.7	1.7	22.7	5.4	71.
13.1	46.4	4373.3	600.0	1.0	-22.2	261.4	14.7	14.6	2.2	318.4	321.9	1.1	14.7	6.4	72.
14.1	49.4	4721.4	575.0	0.6	-26.6	266.3	17.5	17.5	1.1	320.7	323.2	0.7	10.9	7.4	74.
15.0	52.1	5075.5	550.0	-1.5	-29.5	269.9	17.7	17.7	0.1	322.3	324.3	0.6	9.7	8.4	76.
16.2	55.3	5444.6	525.0	-4.7	-31.6	275.7	16.4	16.3	-1.6	322.8	324.6	0.5	10.1	9.5	78.
17.9	58.3	5836.1	500.0	-7.5	-32.9	274.7	17.8	16.9	-1.7	323.9	325.6	0.5	10.9	11.0	80.
19.8	61.4	6222.7	475.0	-10.9	-31.5	271.2	16.5	16.5	-0.4	324.6	326.0	0.6	16.3	12.9	82.
21.5	65.0	6633.7	450.0	-14.0	-33.9	273.7	18.6	18.5	-1.2	325.6	327.3	0.5	18.6	14.7	83.
22.9	68.3	7067.1	425.0	-17.4	-35.7	277.5	19.4	19.3	-2.6	326.7	327.8	0.3	13.5	16.3	85.
24.4	71.7	7517.7	400.0	-21.7	-36.8	277.1	17.5	17.4	-2.2	325.8	328.3	0.4	23.5	17.8	86.
25.8	75.4	7989.6	375.0	-25.7	-35.5	275.4	18.9	18.7	-1.8	327.7	329.4	0.5	39.7	19.4	87.
27.5	79.3	8484.2	350.0	-29.9	-40.9	281.3	20.2	19.8	-4.0	329.9	332.7	0.8	82.5	21.3	88.
29.6	83.2	9013.7	325.0	-32.7	-38.8	284.8	22.7	21.9	-5.7	331.6	333.1	0.4	84.1	23.8	89.
31.9	87.2	9571.5	300.0	-37.2	-47.8	280.2	24.9	24.4	-4.4	332.9	333.6	0.2	38.2	27.0	91.
34.1	91.7	10144.8	275.0	-42.2	99.9	280.1	23.9	23.5	-4.2	334.2	999.9	99.9	999.9	30.4	92.
36.5	96.2	10906.0	250.0	-47.3	99.9	281.2	24.6	24.1	-4.8	335.7	999.9	99.9	999.9	33.7	93.
38.9	101.0	11690.8	225.0	-53.9	99.9	276.4	21.9	21.6	-2.4	337.2	999.9	99.9	999.9	37.8	93.
41.6	106.5	12545.5	200.0	-58.0	99.9	280.8	23.9	23.6	-4.5	344.1	999.9	99.9	999.9	40.8	94.
44.8	112.3	13497.6	175.0	-59.5	99.9	278.1	23.9	23.6	-3.4	351.7	999.9	99.9	999.9	45.0	95.
47.9	119.1	14604.0	150.0	-61.9	99.9	276.8	26.7	26.5	-3.2	363.5	999.9	99.9	999.9	49.8	95.
51.9	125.4	15149.3	125.0	-65.7	99.9	282.3	19.8	19.3	-4.2	376.1	999.9	99.9	999.9	55.4	95.
56.2	132.4	14804.0	100.0	-67.3	99.9	287.0	7.9	7.5	-2.3	397.8	999.9	99.9	999.9	58.6	96.
62.5	140.7	14248.4	75.0	-64.8	99.9	241.9	4.2	3.7	2.0	437.1	999.9	99.9	999.9	59.5	96.
71.0	149.7	20778.5	50.0	-58.5	99.9	110.9	6.8	-3.8	1.4	505.7	999.9	99.9	999.9	58.7	96.
84.2	157.8	25216.9	25.0	-49.8	99.9	999.9	999.9	99.9	99.9	647.8	999.9	99.9	999.9	58.8	96.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 327
NASHVILLE, TENNESSEE

27 MAY 1977
2100 GMT

154 10. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.4	190.0	999.1	28.7	15.6	280.0	1.6	1.6	-0.3	302.9	333.7	11.4	45.8	0.0	0.
00.9	00.0	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	999.
0.7	9.5	300.2	975.0	26.4	16.0	325.6	1.1	0.6	-0.9	301.8	333.7	11.9	52.7	0.0	143.
1.9	10.9	534.8	950.0	24.0	14.9	14.3	1.4	-0.3	-1.4	301.6	332.0	11.3	56.8	0.1	184.
2.9	11.0	741.4	925.0	21.9	14.0	39.6	2.0	-1.3	-1.6	301.7	331.4	11.0	61.1	0.2	188.
4.0	15.1	994.7	900.0	19.7	13.9	40.6	1.6	-1.0	-1.2	301.8	331.9	11.2	69.3	0.3	202.
5.0	17.5	1241.2	875.0	17.7	13.1	61.3	2.3	-2.0	-1.1	301.9	331.2	10.9	76.3	0.4	209.
6.1	19.9	1488.3	850.0	14.9	12.7	62.7	2.9	-2.5	-1.3	301.7	331.4	11.0	87.0	0.6	220.
7.2	22.1	1741.2	825.0	13.5	11.5	82.2	2.1	-2.1	-0.3	302.9	331.3	10.4	87.9	0.7	226.
8.5	24.6	2000.0	800.0	11.1	10.2	85.4	3.1	-3.1	-0.2	303.0	329.9	9.9	94.5	0.9	234.
9.8	25.9	2265.1	775.0	9.7	8.2	99.3	3.9	-3.9	0.6	304.3	328.7	8.9	90.2	1.1	242.
11.1	29.5	2537.8	750.0	8.9	4.0	110.9	5.7	-5.3	2.0	306.3	325.5	6.8	71.0	1.4	253.
12.2	32.1	2817.9	725.0	6.5	2.7	114.7	6.3	-5.8	2.7	306.6	324.9	6.4	76.2	1.7	262.
13.6	34.9	3105.6	700.0	4.9	-0.1	124.9	6.7	-5.5	3.8	307.9	323.5	5.4	70.2	2.1	269.
14.9	37.7	3401.2	675.0	2.5	-1.3	125.9	7.3	-6.0	4.3	308.5	323.5	5.2	76.2	2.5	276.
15.4	40.0	3705.9	650.0	-0.0	-1.9	113.7	6.8	-6.2	2.7	308.9	323.9	5.2	87.8	2.8	280.
16.6	42.6	4019.6	625.0	-0.7	-29.3	91.7	7.5	-7.5	0.2	311.7	313.5	0.5	9.2	3.3	280.
17.9	45.5	4345.8	600.0	0.2	-27.9	84.6	7.3	-7.2	-0.7	314.4	316.5	0.6	9.6	3.9	277.
19.7	48.5	4685.9	575.0	-1.5	-27.4	80.1	6.9	-6.8	-1.2	318.3	320.6	0.7	11.7	4.6	275.
21.1	51.3	5039.1	550.0	-4.1	-28.6	78.7	7.5	-7.3	-2.0	319.2	321.5	0.7	12.7	5.2	273.
22.4	54.4	5407.6	525.0	-7.3	-29.5	68.1	6.4	-6.0	-2.4	319.6	321.8	0.6	15.0	5.8	271.
23.7	57.4	5790.1	500.0	-10.6	-32.5	89.4	3.5	-3.5	-0.0	320.1	321.8	0.5	14.5	6.1	270.
25.0	60.8	6187.2	475.0	-12.2	-35.7	122.8	5.9	-4.9	3.2	322.9	324.2	0.4	12.0	6.4	271.
26.4	64.0	6598.7	450.0	-14.5	-37.3	116.1	6.5	-5.9	2.8	325.0	326.2	0.3	12.3	6.9	274.
28.3	67.3	7025.1	425.0	-18.1	-40.2	123.3	6.0	-5.0	3.3	325.8	326.8	0.3	12.2	7.5	275.
29.1	70.9	7464.8	400.0	-22.0	-42.5	123.8	5.7	-4.7	3.1	326.4	327.2	0.2	13.5	8.0	278.
32.1	74.4	7918.9	375.0	-26.1	-44.4	126.0	6.4	-5.2	3.9	327.1	327.8	0.2	15.9	8.7	280.
34.1	79.3	8390.3	350.0	-30.8	-46.6	124.8	5.4	-4.3	3.2	327.3	327.9	0.2	15.3	9.3	282.
35.1	82.2	8879.2	325.0	-35.0	-47.4	107.2	4.9	-4.7	1.5	328.5	329.1	0.2	26.6	10.0	283.
39.0	85.9	9386.3	300.0	-38.9	-50.7	113.1	3.1	-2.9	1.2	330.7	331.2	0.1	26.8	10.4	283.
42.4	90.3	10037.5	275.0	-43.7	99.9	171.3	2.9	-0.4	2.9	332.0	999.9	99.9	999.9	10.6	284.
42.9	95.0	10720.9	250.0	-48.2	99.9	182.6	4.8	0.2	4.8	332.9	999.9	99.9	999.9	10.8	287.
45.7	99.9	11431.2	225.0	-55.7	99.9	194.8	4.8	1.4	4.6	333.2	999.9	99.9	999.9	10.9	291.
48.7	104.8	12142.7	200.0	-61.3	99.9	173.7	4.0	-0.5	3.9	335.7	999.9	99.9	999.9	11.2	295.
51.4	110.4	12873.1	175.0	-64.9	99.9	178.7	3.0	-0.1	3.0	342.9	999.9	99.9	999.9	11.5	297.
55.1	116.5	13637.1	150.0	-60.9	99.9	247.9	7.3	6.9	2.7	365.4	999.9	99.9	999.9	11.3	302.
59.6	123.3	14457.1	125.0	-62.4	99.9	315.3	4.3	3.0	-3.0	382.0	999.9	99.9	999.9	9.8	305.
65.7	130.8	15432.5	100.0	-62.5	99.9	8.9	4.4	-0.7	-4.3	407.1	999.9	99.9	999.9	9.1	259.
72.1	139.7	16219.3	75.0	-60.7	99.9	124.7	4.9	2.3	-4.0	44 5	999.9	99.9	999.9	8.5	254.
91.7	145.7	20732.8	50.0	-58.9	99.9	76.2	7.8	-7.5	-1.8	504.8	999.9	99.9	999.9	9.2	282.
94.2	155.0	25194.8	25.0	-50.4	99.9	132.6	4.1	-3.0	2.8	639.7	999.9	99.9	999.9	13.1	276.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 5 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 5 DEG

STATION NO. 340
LITTLE ROCK, ARKANSAS

27 MAY 1977
2000 GMT

163 26. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.0	173.0	990.5	30.6	14.7	200.0	2.6	0.9	2.4	304.6	333.8	10.7	38.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	0.4	312.7	975.0	28.1	15.7	320.9	2.8	1.8	-2.2	303.5	3[illegible].9	11.8	46.7	0.1	183.
1.7	10.8	547.6	950.0	25.5	15.1	317.2	1.7	1.2	-1.2	303.1	334.3	11.5	52.7	0.3	188.
2.9	13.3	774.4	925.0	23.1	14.0	310.1	1.0	0.7	-0.6	303.0	332.7	10.9	56.3	0.3	146.
3.7	15.4	1014.8	900.0	20.9	8.8	328.9	1.1	0.6	-0.9	303.1	325.1	8.0	46.0	0.4	146.
4.7	19.8	1257.8	875.0	19.5	5.9	316.2	2.7	1.9	-1.9	304.1	322.6	6.6	40.7	0.5	146.
5.7	20.5	1504.8	850.0	17.6	7.1	314.8	5.1	3.6	-3.6	304.6	325.4	7.5	50.1	0.7	140.
6.6	23.0	1741.2	825.0	15.6	6.1	310.9	[illegible].6	5.0	-4.3	305.1	325.2	7.2	52.9	1.1	139.
7.8	25.9	2021.7	800.0	13.4	5.1	312.4	7.1	5.2	-4.8	305.4	324.8	6.9	57.0	1.4	137.
9.4	28.1	2289.2	775.0	11.1	4.2	317.2	6.9	4.7	-5.1	305.7	324.6	6.7	62.4	1.8	137.
9.3	30.9	2560.9	750.0	9.1	3.7	320.0	6.8	4.4	-5.2	305.6	324.4	6.7	72.7	2.2	137.
10.2	33.6	2840.4	725.0	6.9	2.2	319.2	6.3	4.2	-4.7	304.2	323.9	6.2	78.8	2.6	137.
11.2	36.3	3127.9	700.0	4.9	0.9	312.2	5.1	3.8	-3.4	307.9	324.7	5.9	75.4	2.9	137.
12.2	39.1	3424.2	675.0	3.9	-1.8	300.2	3.9	3.4	-2.0	309.4	323.8	5.0	68.9	3.2	137.
13.4	42.0	3729.0	650.0	2.2	-6.8	276.4	4.0	4.0	-0.5	311.5	322.3	3.6	52.2	3.4	135.
14.6	45.0	4045.6	625.0	-0.2	-5.1	260.9	6.0	5.9	0.9	312.2	324.7	4.2	66.3	3.6	131.
15.5	48.1	4371.4	600.0	-2.1	-8.9	244.3	7.0	6.3	3.0	311.6	323.5	3.3	56.8	3.9	128.
16.7	51.1	4709.3	575.0	-3.7	-8.3	230.2	7.8	6.0	5.0	315.7	326.6	3.6	70.3	4.1	118.
17.4	54.4	5059.6	550.0	-5.8	-13.0	231.2	8.0	6.3	5.0	317.2	325.2	2.6	56.6	4.3	111.
19.1	57.6	5423.4	525.0	-7.3	-16.4	244.6	5.8	5.2	2.5	319.7	326.2	2.0	48.1	4.6	106.
20.5	61.0	5801.5	500.0	-10.1	-20.3	262.5	6.4	6.3	0.9	320.7	325.6	1.5	42.8	5.0	103.
21.9	64.6	6194.7	475.0	-13.3	-20.1	264.5	7.9	7.9	0.7	321.5	326.8	1.6	56.4	5.6	101.
23.4	68.0	6604.3	450.0	-16.2	-22.3	257.0	8.3	7.9	2.4	322.9	327.6	1.4	56.0	6.3	99.
24.9	71.7	7032.5	425.0	-19.2	-25.3	238.8	6.7	5.7	3.5	324.4	328.3	1.1	58.2	6.9	96.
24.3	75.6	7480.4	400.0	-22.9	-26.6	233.9	4.0	3.2	2.4	325.3	328.9	1.1	71.2	7.2	93.
29.0	79.7	7949.6	375.0	-27.0	-28.9	211.5	5.1	2.7	4.4	325.9	329.1	0.9	83.7	7.4	91.
29.7	83.9	8443.4	350.0	-30.9	-32.7	205.5	7.2	3.1	6.5	327.1	329.6	0.7	83.9	7.8	87.
31.6	87.9	8965.7	325.0	-34.2	-40.8	188.2	7.8	1.1	7.7	329.6	330.8	0.3	52.3	8.1	82.
33.3	92.7	9520.8	300.0	-38.9	99.9	170.0	7.4	-1.3	7.3	330.5	999.9	99.9	999.9	8.2	78.
35.5	97.4	10110.8	275.0	-43.8	99.9	164.9	8.1	-2.1	8.6	332.1	999.9	99.9	999.9	8.3	66.
37.8	102.4	10744.4	250.0	-48.6	99.9	169.1	9.[illegible]	-1.7	9.0	333.9	999.9	99.9	999.9	8.6	60.
40.5	108.0	11429.8	225.0	-53.7	99.9	190.0	9.7	-0.0	9.7	336.3	999.9	99.9	999.9	9.1	58.
43.7	113.8	12143.9	200.0	-58.1	99.9	247.8	8.7	8.0	3.3	343.9	999.9	99.9	999.9	10.5	49.
46.3	120.0	12919.9	175.0	-62.5	99.9	314.4	3.8	2.7	-2.7	346.9	999.9	99.9	999.9	11.4	52.
49.8	127.0	13948.8	150.0	-60.6	99.9	210.7	6.9	3.5	6.0	365.7	999.9	99.9	999.9	11.9	59.
53.5	134.7	15099.0	125.0	-62.0	99.9	292.2	8.4	7.8	-3.2	382.7	999.9	99.9	999.9	13.2	61.
58.6	142.3	16481.7	100.0	-61.8	99.9	314.5	5.3	3.9	-3.7	408.5	999.9	99.9	999.9	14.8	69.
64.6	150.7	18249.5	75.0	-64.1	99.9	63.4	1.7	-1.6	-0.8	438.6	999.9	99.9	999.9	14.4	70.
73.0	160.0	20762.9	50.0	-66.2	99.9	75.1	4.2	-4.1	-1.1	511.1	999.9	99.9	999.9	13.2	71.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 749
MONETT, MISSOURI

27 MAY 1977
2000 GMT

150 10. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	0.4	878.0	959.4	27.7	15.0	190.0	3.1	0.5	3.1	304.4	335.3	11.3	46.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	93.9	99.9	99.9	99.9	999.9	999.9	999.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	999.9	999.9	999.9	999.
0.2	10.2	924.8	950.0	25.9	39.9	191.6	2.3	0.5	2.3	303.5	999.9	99.9	999.9	0.1	36.
1.0	12.5	958.7	925.0	23.2	13.9	184.8	2.8	0.2	2.8	303.1	332.7	10.9	58.8	0.2	28.
1.9	14.8	992.0	900.0	20.8	12.9	195.7	2.9	0.9	2.8	302.9	331.4	10.4	60.5	0.3	19.
3.0	17.1	1239.9	875.0	18.3	11.7	208.8	3.9	1.9	3.4	302.8	329.9	9.9	65.1	0.5	18.
4.1	19.5	1488.1	850.0	16.3	10.4	221.4	5.0	3.3	3.8	303.2	328.9	9.4	68.2	0.8	25.
5.1	21.8	1741.4	825.0	14.3	9.5	242.5	5.2	4.6	2.4	303.7	328.8	9.1	72.6	1.1	32.
6.1	24.1	2001.1	800.0	12.5	5.2	254.3	6.9	6.6	1.9	304.5	324.0	7.0	60.9	1.4	40.
7.1	26.5	2267.0	775.0	10.9	2.5	255.8	9.7	9.4	2.4	305.6	322.4	5.9	56.1	1.2	49.
8.2	29.4	2540.0	750.0	8.9	1.1	254.0	9.9	9.5	2.7	306.3	322.1	5.5	57.9	2.4	56.
9.1	32.1	2819.8	725.0	6.5	0.0	247.9	9.3	8.6	3.5	306.9	322.1	5.3	62.0	3.0	59.
10.2	34.6	3107.6	700.0	4.8	-1.4	244.2	9.4	8.7	3.5	307.9	322.2	5.0	64.2	3.5	60.
11.2	37.3	3403.7	675.0	3.6	-2.3	246.7	9.1	8.3	3.6	309.5	322.6	4.5	61.6	4.1	61.
12.3	39.9	3709.0	650.0	1.6	-5.0	244.6	9.1	7.3	3.5	310.8	322.8	4.1	61.1	4.6	62.
13.4	42.7	4023.8	625.0	-0.8	-9.0	233.7	7.9	6.4	4.7	311.5	320.9	3.1	53.8	5.2	62.
14.7	45.6	4349.0	600.0	-2.8	-10.5	218.6	9.2	5.7	7.2	312.9	321.6	2.9	55.4	5.8	60.
16.0	48.4	4685.0	575.0	-4.9	-14.9	214.5	10.5	5.9	8.7	314.3	320.8	2.1	48.4	6.5	57.
17.4	51.4	5033.4	550.0	-6.6	-15.7	214.9	10.1	5.8	8.3	316.3	321.0	1.5	34.3	7.3	54.
18.9	54.4	5396.3	525.0	-8.1	-16.7	221.5	9.8	6.5	7.4	318.7	325.0	2.0	50.1	8.1	53.
20.3	57.5	5773.0	500.0	-11.3	-24.8	221.3	9.7	6.4	7.2	319.2	322.4	1.0	25.9	9.0	52.
21.8	60.9	6164.9	475.0	-13.8	-33.8	219.7	8.4	5.4	6.5	320.9	322.5	0.5	16.6	9.8	51.
23.4	64.1	6573.9	450.0	-16.0	-36.2	226.1	8.3	6.0	5.8	323.1	324.4	0.4	15.6	10.6	50.
25.1	67.4	7002.2	425.0	-19.1	-36.8	217.7	7.7	4.7	6.1	324.5	325.9	0.4	19.0	11.4	50.
26.9	70.8	7450.9	400.0	-21.8	-42.0	212.9	9.1	4.9	7.6	326.6	327.5	0.2	14.0	12.2	49.
28.5	74.5	7923.2	375.0	-25.1	-41.6	199.2	10.4	3.4	9.8	329.4	330.8	0.7	53.0	13.2	47.
30.3	78.4	8420.1	350.0	-29.7	-35.5	187.4	11.6	1.5	11.5	328.9	330.6	0.5	56.5	14.1	44.
32.1	82.2	8934.8	325.0	-33.3	-45.3	191.4	13.0	2.6	12.8	330.8	331.5	0.2	28.5	15.1	42.
34.1	86.2	9507.4	300.0	-37.4	-46.3	188.2	13.8	2.0	13.6	332.7	333.2	0.1	27.5	16.6	39.
36.3	90.5	10097.5	275.0	-41.9	99.9	176.6	13.5	-0.8	13.4	334.5	999.9	99.9	999.9	18.1	35.
38.5	95.0	10734.4	250.0	-47.0	99.9	178.2	13.2	-0.4	13.2	336.2	999.9	99.9	999.9	19.4	32.
40.9	99.8	11424.9	225.0	-52.4	99.9	197.0	13.8	4.0	13.2	338.2	999.9	99.9	999.9	21.2	30.
43.1	105.0	12177.4	200.0	-58.1	99.9	197.5	12.4	3.7	11.8	340.7	999.9	99.9	999.9	23.0	29.
45.9	110.4	13002.9	175.0	-63.1	99.9	194.1	6.9	0.5	6.9	345.8	999.9	99.9	999.9	24.5	28.
48.0	116.5	13951.1	150.0	-61.0	99.9	234.4	8.5	6.9	5.0	369.0	999.9	99.9	999.9	25.5	28.
52.8	123.3	15100.1	125.0	-48.9	99.9	288.4	8.1	7.7	-2.6	389.3	999.9	99.9	999.9	26.7	32.
57.2	130.7	16449.7	100.0	-60.4	99.9	260.1	5.1	5.0	0.9	411.0	999.9	99.9	999.9	27.0	35.
62.4	139.3	18212.9	75.0	-62.5	99.9	152.7	2.4	-1.1	2.1	441.9	999.9	99.9	999.9	27.7	36.
70.3	146.0	20800.9	50.0	-55.9	99.9	83.0	5.4	-5.3	-0.7	511.7	999.9	99.9	999.9	26.4	38.
91.6	153.7	25263.1	25.0	-50.1	99.9	999.9	999.9	99.9	99.9	641.1	999.9	99.9	999.9	24.5	26.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 353
OKLAHOMA CITY, OKLAHOMA

27 MAY 1977
2000 GMT

187 17. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MR RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	0.0	392.0	962.1	29.9	19.5	160.0	7.7	-2.6	7.2	302.1	342.2	15.0	66.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	10.5	509.3	940.0	28.1	99.9	173.4	9.8	-1.1	9.7	302.7	999.9	99.9	999.9	0.3	283.
1.3	12.7	737.0	925.0	22.7	17.2	181.0	11.2	0.2	11.2	302.6	338.9	13.8	71.1	0.8	356.
2.1	15.1	975.4	900.0	20.4	14.6	185.9	10.8	1.1	10.7	302.5	338.4	13.4	75.8	1.4	286.
3.2	17.8	1219.8	875.0	17.8	15.9	194.1	11.2	2.7	10.8	302.3	337.6	13.1	88.4	2.0	8.
4.2	19.9	1445.9	850.0	16.3	14.7	206.2	14.5	6.4	13.0	303.3	337.1	12.8	90.1	2.8	7.
5.1	22.2	1701.0	825.0	14.7	13.2	217.5	14.1	8.6	11.2	304.2	336.1	11.7	90.7	3.7	13.
5.9	24.8	1992.0	800.0	15.0	10.3	222.6	13.2	9.0	9.7	307.1	334.7	9.9	73.8	4.1	17.
6.8	27.1	2250.7	775.0	13.7	9.1	229.3	10.3	7.8	6.7	308.2	329.9	7.7	81.4	4.7	21.
7.9	29.8	2554.6	750.0	12.9	1.3	241.7	7.9	6.9	3.8	310.1	326.5	5.8	68.8	5.2	26.
9.9	32.6	2810.3	725.0	10.6	-3.2	238.1	7.3	6.2	3.9	311.1	323.4	4.2	37.8	5.6	27.
10.1	35.3	3101.4	700.0	8.0	-8.2	243.1	7.4	6.6	3.4	311.3	322.4	3.7	28.7	6.0	30.
11.2	37.9	3390.9	675.0	5.2	-5.1	244.7	9.9	9.0	4.2	311.4	323.0	3.9	47.6	6.5	33.
12.4	40.6	3706.8	650.0	2.3	-6.2	246.0	12.3	11.2	5.0	311.6	322.8	3.7	53.2	7.1	36.
13.6	43.5	4021.9	625.0	-0.6	-12.8	246.3	13.4	12.3	5.4	311.7	318.8	2.3	39.1	8.0	40.
14.8	46.5	4346.4	600.0	-3.1	-19.5	248.6	15.3	14.3	5.8	312.6	316.9	1.4	26.9	8.9	43.
16.1	49.5	4682.6	575.0	-4.4	-23.1	253.2	17.9	17.1	5.2	314.9	318.3	1.0	21.8	10.0	46.
17.3	52.4	5011.9	550.0	-6.2	-25.5	255.8	19.0	18.4	4.7	316.7	319.6	0.9	20.0	11.2	49.
18.6	55.6	5363.8	525.0	-8.5	-27.9	258.9	16.9	16.6	3.3	318.2	320.7	0.9	19.6	12.5	52.
20.0	58.7	5720.3	500.0	-10.5	-29.8	260.4	14.7	14.7	0.1	320.2	322.4	0.8	18.7	13.8	55.
21.6	62.1	6102.5	475.0	-13.5	-32.3	265.9	15.0	14.4	-4.1	321.3	323.2	0.5	18.7	14.6	59.
23.2	65.6	6521.7	450.0	-16.5	-32.5	286.4	19.9	19.1	-5.6	322.5	324.4	0.5	23.5	15.7	63.
24.7	69.1	6999.1	425.0	-19.0	-34.1	279.8	22.2	21.9	-3.8	324.7	326.2	0.4	22.0	17.4	68.
26.3	72.7	7487.1	400.0	-22.8	-38.7	282.0	20.0	19.6	-4.1	325.6	326.8	0.3	21.4	19.0	71.
27.8	76.5	7916.9	375.0	-26.8	-41.6	284.5	21.9	21.2	-5.5	326.2	327.1	0.3	22.9	20.7	74.
29.5	80.6	8410.4	350.0	-31.4	-45.5	284.7	21.2	20.5	-5.4	326.4	327.1	0.2	23.2	22.6	76.
31.5	84.7	8930.7	325.0	-35.5	-49.0	287.4	22.7	21.7	-6.8	327.7	328.2	0.1	23.4	24.8	79.
33.4	89.9	9492.2	300.0	-39.9	99.9	290.7	26.2	24.5	-9.3	329.1	999.9	99.9	999.9	27.3	82.
35.5	93.5	10071.9	275.0	-43.4	99.9	291.9	31.9	29.6	-11.9	332.4	999.9	99.9	999.9	30.6	86.
37.6	99.4	10704.8	250.0	-48.0	99.9	288.7	25.3	24.0	-8.1	334.7	999.9	99.9	999.9	33.9	88.
39.8	103.6	11361.5	225.0	-53.9	99.9	276.5	19.0	18.9	-2.2	335.9	999.9	99.9	999.9	36.5	90.
42.4	109.3	12160.9	200.0	-58.8	99.9	274.0	22.3	22.2	-1.5	342.9	999.9	99.9	999.9	39.9	90.
45.2	115.2	12993.9	175.0	-56.9	99.9	284.2	22.9	22.0	-6.4	356.1	999.9	99.9	999.9	43.5	91.
48.5	121.8	13960.1	150.0	-58.5	99.9	289.1	21.6	20.4	-7.1	369.3	999.9	99.9	999.9	48.2	92.
52.1	129.0	15092.9	125.0	-60.2	99.9	288.0	12.9	12.3	-4.0	385.9	999.9	99.9	999.9	51.7	92.
57.8	137.0	16472.5	100.0	-62.8	99.9	281.1	5.9	5.8	-1.1	406.4	999.9	99.9	999.9	54.8	94.
62.5	144.7	18234.3	75.0	-62.4	99.9	38.7	4.5	-2.8	-3.5	442.2	999.9	99.9	999.9	58.7	96.
70.6	153.3	20770.6	50.0	-57.8	99.9	53.1	4.3	-3.5	-2.6	507.3	999.9	99.9	999.9	63.4	98.
93.4	162.0	24219.1	25.0	-51.3	99.9	94.1	4.7	-4.7	0.5	637.3	999.9	99.9	999.9	68.1	98.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 369
AMARILLO, TEXAS

27 MAY 1977
2000 GMT

150 10. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.6	1094.0	884.0	27.2	7.6	270.0	5.3	5.3	0.0	311.1	332.5	7.5	29.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	900.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	15.7	1154.3	875.0	26.0	6.6	210.8	4.7	2.4	4.1	310.9	331.0	7.0	29.1	0.2	57.
1.1	19.5	1479.1	850.0	23.1	4.3	212.9	4.9	2.7	4.1	310.4	328.2	6.2	26.3	0.3	44.
2.0	20.5	1697.1	825.0	20.6	3.4	225.0	4.5	3.2	3.2	310.4	327.5	5.9	32.0	0.6	41.
3.2	22.7	1951.4	800.0	17.6	1.9	239.7	4.3	3.7	2.2	309.9	325.9	5.5	34.6	0.9	44.
4.6	24.0	2271.3	775.0	14.9	0.8	250.1	5.1	4.8	1.7	309.8	325.1	5.2	38.1	1.2	52.
5.7	27.1	2507.8	750.0	12.4	0.0	249.1	5.7	5.4	2.0	310.1	325.0	5.1	42.4	1.6	56.
7.0	29.5	2780.7	725.0	9.4	-0.5	246.2	5.7	5.2	2.3	309.8	324.4	5.0	48.8	2.0	58.
9.1	32.0	3050.3	700.0	6.8	-1.6	245.4	6.4	5.9	2.7	310.0	324.2	4.9	55.1	2.4	60.
9.1	34.5	3327.8	675.0	3.9	-4.3	242.5	8.2	7.3	3.8	309.9	322.1	4.1	55.7	2.8	60.
10.1	35.8	3683.9	650.0	2.7	-10.8	247.3	11.4	10.5	4.4	312.0	319.9	2.6	36.3	3.4	61.
10.9	39.5	4000.4	625.0	1.2	-19.1	251.9	14.2	13.5	4.4	313.9	318.2	1.3	20.2	4.1	62.
11.9	42.0	4327.6	600.0	-0.2	-22.5	257.4	15.2	14.8	3.3	315.9	319.3	1.0	16.7	4.9	64.
12.7	44.9	4647.4	575.0	-2.1	-24.0	259.4	17.1	16.7	3.4	317.5	320.7	1.0	16.8	5.7	66.
13.9	47.7	5018.7	550.0	-5.0	-24.6	264.3	17.9	17.8	1.8	318.2	321.3	0.9	15.6	6.8	69.
15.2	50.5	5383.1	525.0	-6.9	-27.2	275.4	21.0	20.9	-2.0	320.2	322.8	0.9	17.9	8.3	73.
15.9	53.5	5762.1	500.0	-9.4	-28.5	274.9	24.1	24.1	-2.0	321.6	324.1	0.7	19.3	10.3	78.
19.1	56.4	6156.2	475.0	-12.5	-30.8	271.6	24.1	24.1	-0.7	322.5	324.6	0.6	20.0	12.2	80.
19.6	59.6	6566.1	450.0	-16.0	-32.4	270.9	24.8	24.8	-0.3	323.1	325.0	0.6	22.8	14.3	82.
21.3	62.8	6994.3	425.0	-19.9	-34.7	270.6	26.7	26.7	-0.3	324.9	326.6	0.5	22.9	16.9	83.
22.9	66.1	7443.7	400.0	-22.8	-38.2	272.5	26.6	26.6	-1.1	325.4	326.7	0.3	22.8	19.4	84.
24.6	70.0	7919.0	375.0	-27.1	-42.1	277.5	27.5	27.3	-3.6	325.9	326.7	0.2	22.2	22.2	86.
24.3	73.5	8405.4	350.0	31.3	-46.1	284.7	25.2	24.4	-6.4	326.6	327.3	0.2	21.2	24.7	87.
29.2	77.3	8935.5	325.0	-35.7	-49.9	286.8	29.4	28.1	-8.5	327.4	327.9	0.1	21.6	27.6	89.
30.9	81.3	9477.1	300.0	-40.1	99.9	284.9	32.5	31.4	-8.3	328.8	999.9	99.9	999.9	31.3	91.
32.4	85.7	10044.9	275.0	-45.2	99.9	281.8	36.7	35.9	-7.5	329.7	999.9	99.9	999.9	35.7	93.
34.7	90.4	10645.1	250.0	-49.2	99.9	278.0	40.2	39.5	-5.6	332.9	999.9	99.9	999.9	41.1	94.
37.0	95.3	11279.0	225.0	-54.5	99.9	279.0	39.2	38.7	-6.1	335.1	999.9	99.9	999.9	46.5	94.
39.9	100.6	11947.8	200.0	-57.3	99.9	276.0	30.8	30.6	-3.2	342.1	999.9	99.9	999.9	52.9	95.
42.9	106.9	12677.6	175.0	-57.9	99.9	270.5	26.0	26.0	-0.2	356.4	999.9	99.9	999.9	57.5	95.
44.1	113.0	13441.9	150.0	-60.0	99.9	271.5	20.0	20.0	-0.5	366.7	999.9	99.9	999.9	62.1	95.
49.9	120.3	15070.6	125.0	-63.0	99.9	270.8	20.8	20.8	-0.3	380.9	999.9	99.9	999.9	66.8	94.
54.2	128.7	14439.6	100.0	-63.8	99.9	266.6	10.4	10.4	0.6	404.5	999.9	99.9	999.9	71.8	94.
60.0	138.1	15203.7	75.0	-64.1	99.9	180.6	4.6	0.0	4.6	438.5	999.9	99.9	999.9	72.8	94.
67.5	148.0	20727.7	50.0	-59.6	99.9	294.8	4.5	4.1	-1.9	503.0	999.9	99.9	999.9	71.4	93.
79.9	158.3	25168.8	25.0	-51.9	99.9	102.5	5.9	-5.8	1.3	635.7	999.9	99.9	999.9	68.1	94.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
+ BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 433
SALEM, ILLINOIS

27 MAY 1977
2015 GMT

154 33. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.6	175.0	999.9	29.4	11.5	180.0	4.2	0.0	4.2	303.5	327.4	8.6	33.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	8.9	299.3	975.0	27.0	10.4	143.6	3.6	-2.1	2.9	302.3	324.9	8.2	35.9	0.1	315.
1.4	11.0	529.3	950.0	25.6	9.9	140.3	3.8	-2.4	3.0	303.1	325.5	8.1	37.3	0.3	319.
2.1	13.3	741.7	925.0	23.1	9.1	175.6	3.1	-0.2	3.1	302.9	324.7	7.9	40.9	0.4	316.
2.7	15.6	999.8	900.0	21.0	8.8	214.5	2.9	1.7	2.4	303.1	325.0	7.9	45.8	0.5	330.
3.5	17.9	1242.5	875.0	18.5	7.8	197.0	3.0	0.9	2.9	303.0	324.1	7.6	45.6	0.5	344.
4.1	20.3	1490.2	850.0	15.8	7.0	178.0	3.4	-0.1	3.4	302.8	323.4	7.5	55.8	0.7	346.
4.9	22.7	1743.0	825.0	13.6	6.4	187.0	3.1	0.4	3.1	303.0	323.3	7.3	61.6	0.8	349.
5.7	25.1	2001.4	800.0	11.4	1.8	198.8	4.8	1.6	4.6	303.3	318.6	3.4	21.1	1.0	353.
6.9	27.7	2266.6	775.0	11.1	-7.6	194.0	6.2	1.5	6.0	305.7	314.0	2.8	28.3	1.3	1.
7.7	30.3	2538.7	750.0	8.9	-18.8	177.1	6.6	-0.3	6.6	306.2	309.9	1.2	12.4	1.7	2.
9.8	33.0	2819.1	725.0	8.3	-23.6	164.8	6.7	-1.8	6.5	308.6	311.1	0.8	8.3	2.1	360.
9.8	35.5	3107.3	700.0	6.9	-24.4	147.2	6.4	-3.4	5.4	310.2	312.6	0.8	8.5	2.5	356.
11.0	38.3	3404.2	675.0	4.5	-25.8	147.9	6.0	-3.2	5.1	310.7	313.0	0.7	8.8	2.9	351.
12.3	40.9	3710.6	650.0	3.6	-26.3	162.3	6.0	-1.8	5.7	313.1	315.3	0.7	8.9	3.3	349.
13.5	43.8	4027.8	625.0	1.7	-27.5	160.2	5.3	-1.8	5.0	314.4	316.5	0.6	9.2	3.7	346.
14.7	46.9	4355.9	600.0	-0.6	-23.0	150.9	6.4	-3.1	5.6	315.5	318.6	1.0	16.7	4.1	347.
15.9	49.9	4693.4	575.0	-3.3	-25.6	131.4	5.7	-4.3	3.8	316.2	318.9	0.8	15.8	4.5	345.
17.2	52.7	5044.0	550.0	-4.9	-31.2	126.6	4.6	-3.7	2.8	318.3	320.1	0.5	10.6	4.8	342.
18.5	55.5	5407.9	525.0	-7.8	-32.7	155.3	4.0	-1.7	3.6	319.0	320.8	0.5	11.5	5.1	340.
19.9	59.0	5785.3	500.0	-10.0	-33.3	190.9	5.1	1.0	5.0	320.8	322.4	0.5	12.8	5.4	341.
21.2	62.4	6178.4	475.0	-13.1	-33.4	194.9	7.2	1.9	7.0	321.7	323.4	0.5	16.3	5.8	344.
22.9	65.9	6587.5	450.0	-16.5	-36.0	184.5	8.2	0.6	8.2	322.6	323.9	0.4	16.8	6.5	347.
24.4	69.4	7015.0	425.0	-19.3	-38.0	183.5	9.0	0.6	9.0	324.3	325.5	0.3	17.1	7.3	348.
26.0	73.0	7462.7	400.0	-22.8	-37.0	183.8	7.3	0.5	7.3	325.3	326.8	0.4	25.8	8.1	350.
27.8	77.0	7933.8	375.0	-26.3	-26.7	184.5	6.2	0.5	6.2	326.9	330.7	1.1	56.4	8.8	351.
29.3	80.9	8427.8	350.0	-30.7	-31.5	180.3	6.2	0.0	6.2	327.3	330.1	0.8	92.8	9.3	352.
31.8	85.1	8949.4	325.0	-35.2	-36.9	172.6	6.3	-0.8	6.3	328.1	329.9	0.5	84.7	10.0	352.
33.1	89.5	9501.0	300.0	-40.2	99.9	164.8	6.9	-1.8	6.7	328.7	999.9	99.9	999.9	10.7	352.
35.2	94.4	10085.1	275.0	-45.4	99.9	159.1	9.3	-3.3	8.7	329.4	999.9	99.9	999.9	11.7	351.
37.5	99.2	10717.0	250.0	-50.4	99.9	158.8	10.5	-3.8	9.8	331.2	999.9	99.9	999.9	13.0	350.
39.5	104.3	11396.5	225.0	-55.7	99.9	160.3	11.4	-3.8	10.7	333.1	999.9	99.9	999.9	14.5	349.
42.5	110.0	12137.4	200.0	-60.5	99.9	174.9	9.7	-0.8	8.6	336.9	999.9	99.9	999.9	16.4	348.
45.2	115.9	12970.6	175.0	-59.5	99.9	238.0	7.9	6.6	4.1	351.7	999.9	99.9	999.9	17.2	350.
48.2	122.7	13924.2	150.0	-63.2	99.9	277.2	3.8	3.8	-0.5	361.3	999.9	99.9	999.9	17.3	354.
52.2	130.0	15049.2	125.0	-61.8	99.9	3.1	4.3	-0.2	-4.3	383.1	999.9	99.9	999.9	16.8	358.
57.0	137.7	16479.9	100.0	-60.6	99.9	147.8	4.2	-2.3	3.6	410.6	999.9	99.9	999.9	15.9	352.
62.6	145.3	18227.6	75.0	-64.2	99.9	339.3	4.8	1.7	-4.5	438.4	999.9	99.9	999.9	16.0	357.
71.0	154.0	20748.4	50.0	-66.9	99.9	999.9	999.9	99.9	99.9	509.4	999.9	99.9	999.9	14.9	348.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
# BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 451
DODGE CITY, KANSAS

27 MAY 1977
2015 GMT

145 20. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	13.6	791.0	917.0	25.0	13.9	200.0	4.1	1.4	3.9	305.6	335.7	11.0	60.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.6	15.9	956.5	900.0	21.7	13.1	203.4	5.1	2.0	4.6	303.9	323.0	10.6	68.0	0.2	13.
1.4	17.7	1109.7	875.0	19.6	12.2	199.7	5.6	1.8	5.3	304.2	322.3	10.3	62.1	0.4	18.
2.3	19.7	1448.0	850.0	17.5	12.0	198.6	5.7	1.9	5.4	304.4	323.0	10.4	70.2	0.7	18.
3.4	21.9	1701.9	825.0	13.7	11.4	201.5	6.9	2.6	6.4	303.1	321.3	10.3	85.6	1.1	18.
4.2	24.4	1940.9	800.0	11.3	6.4	212.2	7.2	3.8	6.1	301.2	324.3	7.6	71.8	1.5	20.
5.1	26.4	2224.0	775.0	10.7	1.7	224.0	8.7	6.1	6.3	305.3	321.3	5.6	54.0	1.9	24.
6.1	29.2	2488.2	750.0	10.5	-9.5	234.1	9.7	7.9	5.7	304.0	315.5	2.5	23.5	2.4	30.
7.0	31.9	2748.0	725.0	8.1	-12.4	241.2	11.9	10.4	5.7	305.4	314.6	2.0	21.8	2.9	35.
7.9	34.4	3048.4	700.0	5.8	-11.0	242.0	14.5	12.8	6.8	308.9	316.0	2.4	28.7	3.6	40.
9.0	37.0	3344.4	675.0	3.0	-9.7	241.3	17.0	14.9	8.2	309.0	317.1	2.7	38.7	4.5	45.
10.1	39.9	3649.1	650.0	0.9	-10.4	240.1	19.2	16.6	9.6	309.9	318.0	2.7	42.8	5.7	48.
11.3	42.7	3952.5	625.0	-2.2	-17.5	238.6	20.3	17.3	10.6	310.0	315.8	1.9	35.7	7.1	50.
12.5	45.2	4305.3	600.0	-2.6	-39.5	236.8	20.5	17.1	11.3	313.1	313.8	0.2	4.0	8.6	52.
13.7	48.3	4641.9	575.0	-5.5	-35.0	236.6	17.9	15.0	9.[illegible]	313.6	314.7	0.3	7.6	10.0	52.
14.9	51.0	4980.0	550.0	-7.3	-39.1	236.9	17.9	15.0	9.8	315.4	316.2	0.2	5.7	11.2	53.
16.1	54.1	5349.9	525.0	-6.6	-45.2	232.3	16.3	12.9	10.0	316.9	317.6	0.1	3.6	12.5	53.
17.3	57.1	5724.8	500.0	-11.8	-53.3	234.7	13.6	11.1	7.9	318.7	318.9	0.1	1.7	13.6	53.
18.7	60.5	6115.2	475.0	-14.9	-51.5	256.8	12.2	11.9	2.8	319.6	319.9	0.1	2.8	14.5	54.
19.9	63.9	6521.0	450.0	-18.2	-49.0	270.9	15.4	16.4	-0.3	320.3	320.7	0.1	4.7	15.4	56.
21.5	67.7	6944.8	425.0	-21.8	-50.7	264.6	24.0	23.9	2.3	321.1	321.4	0.1	5.2	17.0	59.
22.9	70.8	7338.7	400.0	-24.9	-52.5	255.7	24.9	24.1	6.1	322.6	322.9	0.1	5.6	18.6	62.
24.6	74.5	7754.4	375.0	-28.7	-51.9	249.9	25.3	23.8	8.7	323.7	324.0	0.1	8.6	21.5	63.
26.2	78.5	8183.7	350.0	-33.3	-51.6	252.6	26.5	25.3	7.9	323.9	324.3	0.1	13.8	23.9	64.
27.8	82.5	8659.3	325.0	-38.0	-54.6	255.8	28.0	27.1	6.8	324.3	324.6	0.1	15.5	26.6	65.
29.4	86.5	9109.2	300.0	-42.5	99.9	256.4	25.9	25.2	6.1	325.5	999.9	99.9	999.9	29.2	66.
31.4	91.0	9595.8	275.0	-47.8	99.9	260.4	26.1	25.7	4.3	326.0	999.9	99.9	999.9	32.0	67.
33.4	95.7	10114.1	250.0	-48.9	99.9	266.7	25.2	25.2	1.5	333.3	999.9	99.9	999.9	35.2	68.
35.6	100.7	11307.0	225.0	-51.0	99.9	257.4	25.3	24.7	5.5	340.3	999.9	99.9	999.9	38.3	70.
37.9	106.1	12044.0	200.0	-52.9	99.9	265.7	22.8	22.7	1.7	349.0	999.9	99.9	999.9	41.5	70.
43.4	112.0	12920.3	175.0	-55.5	99.9	253.5	21.1	20.2	6.0	359.3	999.9	99.9	999.9	44.5	71.
47.1	118.3	13901.2	150.0	-56.5	99.9	260.2	20.7	20.4	3.5	372.7	999.9	99.9	999.9	48.4	71.
46.2	125.1	15056.5	125.0	-60.2	99.9	273.7	14.7	14.6	-0.9	386.0	999.9	99.9	999.9	51.5	72.
50.3	132.7	16439.9	100.0	-62.6	99.9	286.5	6.3	6.1	-1.8	406.9	999.9	99.9	999.9	53.2	73.
55.4	140.7	18209.8	75.0	-63.1	99.9	181.3	4.7	0.1	4.7	440.8	999.9	99.9	999.9	54.1	73.
62.1	147.7	20742.1	50.0	-57.8	99.9	91.4	3.6	-3.6	0.1	507.3	999.9	99.9	999.9	53.7	72.
73.2	155.5	25192.7	25.0	-52.7	99.9	94.6	10.2	-10.1	0.8	633.9	999.9	99.9	999.9	49.9	72.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 456
TOPEKA, KANSAS

27 MAY 1977
2000 GMT

137 72. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.9	249.0	975.0	25.0	20.0	200.0	4.1	1.4	3.9	300.2	340.8	15.3	74.6	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	7.9	277.1	975.0	26.2	19.5	209.3	4.5	2.2	3.9	301.6	341.0	14.8	66.8	0.2	85.
1.2	10.7	506.7	950.0	24.6	16.4	211.8	5.8	3.0	4.9	302.1	335.7	12.5	60.2	0.4	144.
2.5	12.3	778.5	925.0	21.7	13.2	213.8	6.9	3.8	5.8	301.5	329.7	10.4	58.4	0.5	72.
3.7	14.5	974.9	900.0	19.5	12.7	212.2	6.9	3.7	5.9	301.7	329.8	10.4	64.5	0.9	83.
4.7	16.7	1218.8	875.0	17.2	12.5	209.2	6.2	3.0	5.4	301.6	330.1	10.5	74.2	1.3	66.
5.8	19.2	1445.7	850.0	14.7	11.8	207.9	5.3	2.5	4.7	301.6	329.5	10.3	82.7	1.7	42.
6.4	21.4	1718.0	825.0	12.6	10.8	206.6	5.1	2.3	4.5	301.9	329.0	10.0	85.8	1.9	40.
7.5	23.9	1976.0	800.0	10.2	9.8	209.0	5.8	2.8	5.1	302.1	326.6	9.0	90.8	2.2	39.
8.5	26.2	2249.1	775.0	8.6	7.4	224.7	7.7	5.5	5.3	303.0	326.1	8.4	82.3	2.6	38.
9.7	28.9	2511.6	750.0	7.8	6.8	253.8	7.5	7.2	2.1	305.1	328.2	8.3	93.0	3.1	42.
11.5	31.4	2760.0	725.0	6.9	-5.8	250.0	7.7	7.2	2.6	307.1	317.2	3.4	40.0	3.8	49.
12.7	34.1	3078.0	700.0	5.9	-8.5	249.0	8.8	8.2	3.2	309.1	317.7	2.9	34.6	4.4	51.
13.9	36.5	3376.9	675.0	4.1	-14.1	263.8	9.3	9.3	1.0	310.2	316.1	1.9	28.2	4.9	54.
15.0	39.4	3690.7	650.0	1.9	-17.8	270.1	10.2	10.2	-0.0	311.2	315.7	1.4	21.5	5.5	56.
16.3	42.0	3995.1	625.0	-0.5	-13.9	257.7	11.5	11.2	2.5	311.9	318.4	2.1	35.5	6.2	62.
17.6	45.0	4320.0	600.0	-3.5	-9.6	239.7	13.3	11.5	6.7	312.1	321.4	3.1	62.2	7.2	63.
19.2	48.0	4655.9	575.0	-6.5	-10.5	227.6	14.5	11.5	10.5	314.7	323.9	3.0	63.1	8.6	61.
20.8	50.9	5004.7	550.0	-6.7	-13.8	224.9	14.2	10.0	10.0	316.1	323.6	2.4	57.2	10.0	59.
22.3	54.0	5355.8	525.0	-9.9	-14.3	219.3	12.6	8.0	9.7	316.6	324.1	2.4	70.6	11.2	57.
24.0	57.0	5741.2	500.0	-11.6	-17.1	211.2	13.9	7.2	11.0	318.9	325.3	2.0	63.7	12.3	55.
25.5	60.4	6132.5	475.0	-14.5	-21.0	199.0	14.1	5.0	15.3	320.0	324.9	1.5	57.8	13.6	52.
27.1	63.9	6540.2	450.0	-17.0	-27.1	185.9	15.3	1.7	14.2	321.9	325.0	0.9	40.2	14.8	48.
29.1	67.2	6967.2	425.0	-19.6	-25.7	187.4	16.0	2.0	15.8	323.9	327.5	1.1	58.4	16.2	43.
31.3	70.9	7415.5	400.0	-22.0	-45.9	183.3	16.6	1.0	14.6	326.4	327.3	0.2	14.5	18.0	36.
33.3	74.6	7884.5	375.0	-25.7	-66.3	185.0	17.9	1.6	17.8	327.6	327.7	0.0	1.0	19.7	36.
35.5	78.5	8377.6	350.0	-29.2	-48.6	192.1	21.8	4.6	21.3	329.4	329.5	0.0	1.0	22.1	33.
37.9	82.5	8909.6	325.0	-33.5	-48.0	179.8	22.0	-0.1	22.0	330.5	331.1	0.1	21.7	24.8	30.
40.6	86.7	9465.4	300.0	-37.7	-58.7	174.6	23.4	-2.2	23.3	332.3	332.5	0.0	8.9	28.0	25.
43.4	91.4	10059.2	275.0	-42.5	99.9	166.5	21.9	-5.1	21.3	333.6	999.9	99.9	999.9	31.2	22.
46.3	95.0	10695.8	250.0	-46.7	99.9	173.6	24.9	-2.8	24.6	336.6	999.9	99.9	999.9	34.8	18.
49.4	101.0	11386.3	225.0	-52.2	99.9	175.3	23.5	-1.9	23.4	338.5	999.9	99.9	999.9	38.9	15.
52.9	105.9	12138.9	200.0	-58.1	99.9	175.6	21.9	-1.7	21.9	340.7	999.9	99.9	999.9	43.3	13.
56.8	112.5	12971.6	175.0	-61.8	99.9	187.2	15.2	1.9	15.1	343.0	999.9	99.9	999.9	47.3	12.
61.2	119.0	13897.3	150.0	-57.4	99.9	232.4	11.4	9.0	7.0	371.2	999.9	99.9	999.9	50.3	13.
66.5	125.3	15079.4	125.0	-58.4	99.9	240.7	7.6	6.6	3.7	389.9	999.9	99.9	999.9	52.9	15.
72.7	134.3	16475.5	100.0	-60.9	99.9	252.1	5.6	5.3	1.7	410.0	999.9	99.9	999.9	53.4	17.
91.0	142.0	19258.8	75.0	-61.4	99.9	999.9	99.9	99.9	99.9	443.7	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	50.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
+ BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 532
PEORIA, ILLINOIS

27 MAY 1977
2015 GMT

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.7	200.0	996.7	31.1	9.9	100.0	5.1	-5.0	0.9	305.4	327.2	7.8	27.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	<9.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	9.0	306.2	975.0	27.8	5.4	145.7	4.2	-2.4	3.5	303.1	319.4	5.8	24.1	0.2	273.
1.1	9.9	535.2	950.0	26.1	5.7	137.5	4.9	-3.3	3.6	303.7	320.8	6.1	27.1	0.3	256.
1.9	11.5	759.2	925.0	24.3	6.1	130.1	5.4	-4.2	3.5	304.2	322.2	6.4	30.9	0.6	304.
2.8	13.5	1007.8	900.0	21.7	5.7	131.4	6.2	-4.7	4.1	303.9	322.0	6.4	35.3	0.9	306.
3.7	15.5	1251.1	875.0	19.2	5.0	142.3	7.0	-4.3	5.5	303.7	321.4	6.3	36.4	1.2	309.
4.8	17.3	1499.0	850.0	16.7	4.5	147.9	6.7	-3.6	5.7	303.6	321.1	6.2	44.5	1.7	313.
5.9	19.5	1752.3	825.0	14.1	3.6	152.7	7.6	-2.9	7.1	303.5	320.5	6.0	49.1	2.1	317.
6.9	21.5	2011.4	800.0	12.4	2.6	156.0	6.9	-2.5	6.3	304.4	320.8	5.8	51.1	2.5	321.
7.9	23.5	2276.6	775.0	9.9	-2.8	155.0	8.6	-3.6	7.8	304.3	316.7	4.3	44.2	2.9	322.
9.7	25.6	2549.0	750.0	10.2	-17.8	161.4	10.7	-3.3	9.8	307.7	311.7	1.3	12.5	3.4	325.
9.9	27.7	2829.0	725.0	8.7	-17.6	159.7	9.5	-3.3	8.9	309.0	314.9	1.9	20.0	4.0	328.
10.8	30.0	3118.5	700.0	6.1	-10.9	159.6	7.8	-2.9	7.3	309.4	316.7	2.4	28.0	4.6	329.
11.9	32.4	3419.9	675.0	4.4	-11.5	154.7	6.0	-2.6	5.5	310.6	317.8	2.4	30.5	5.0	330.
12.9	34.7	3733.1	650.0	3.1	-15.7	144.9	5.7	-3.3	4.7	312.5	317.9	1.7	23.6	5.4	330.
14.0	37.0	4059.6	625.0	1.2	-21.0	152.8	6.1	-2.8	5.5	313.4	317.5	1.1	17.2	5.7	329.
15.2	39.4	4365.6	600.0	-0.9	-26.8	167.9	7.8	-1.6	7.6	315.1	317.4	0.7	11.8	6.2	330.
16.4	41.9	4704.1	575.0	-2.3	-24.4	173.7	5.8	-1.0	8.7	317.3	320.3	0.9	16.5	6.8	332.
17.5	44.4	5055.2	550.0	-5.0	-24.3	161.5	5.9	-2.8	8.4	319.2	320.9	0.8	16.8	7.4	334.
18.9	47.3	5419.9	525.0	-7.7	-30.6	162.0	7.3	-2.3	7.0	319.2	321.1	0.6	13.8	8.0	334.
20.0	50.2	5796.9	500.0	-10.1	-33.4	183.9	7.3	0.5	7.3	320.8	322.4	0.5	12.8	8.5	335.
21.5	53.7	6190.3	475.0	-13.0	-35.6	190.9	8.4	1.6	8.2	321.9	323.2	0.4	12.9	9.0	339.
22.9	56.8	6600.2	450.0	-16.0	-37.5	192.9	9.4	2.1	9.2	323.2	324.4	0.3	13.6	9.7	340.
24.4	59.5	7027.6	425.0	-19.7	-40.4	194.9	10.8	2.9	10.5	323.9	324.7	0.3	13.7	10.5	343.
25.1	61.7	7474.5	400.0	-23.7	-30.7	199.9	9.8	3.3	9.2	324.7	327.4	0.8	53.9	11.3	346.
27.5	65.0	7944.1	375.0	-26.7	-30.2	202.7	9.1	3.5	8.4	326.2	329.1	0.8	72.8	12.0	348.
29.5	68.9	8434.2	350.0	-31.3	-35.8	197.4	10.4	2.4	10.1	326.6	328.4	0.5	63.8	13.0	351.
31.2	71.7	8956.5	325.0	-35.7	-43.1	183.9	10.3	0.7	10.3	327.5	328.5	0.3	45.9	13.9	352.
33.2	75.6	9511.1	300.0	-39.7	99.9	187.5	10.6	1.4	10.5	329.4	999.9	99.9	999.9	15.2	353.
35.3	79.7	10099.8	275.0	-44.4	99.9	184.7	11.1	0.9	11.1	331.0	999.9	99.9	999.9	16.6	354.
37.5	83.8	10731.6	250.0	-49.1	99.9	179.9	8.9	-0.0	8.9	333.1	999.9	99.9	999.9	17.9	355.
40.0	88.2	11413.9	225.0	-54.9	99.9	154.3	5.3	-2.3	5.0	334.3	999.9	99.9	999.9	19.9	355.
42.6	93.2	12158.8	200.0	-59.9	99.9	159.1	6.6	-2.3	6.1	338.1	999.9	99.9	999.9	19.6	354.
45.5	98.5	12989.3	175.0	-60.7	99.9	209.1	6.1	3.0	5.3	349.7	999.9	99.9	999.9	20.8	354.
49.0	104.5	13949.0	150.0	-61.0	99.9	234.4	4.5	3.7	2.8	355.0	999.9	99.9	999.9	21.2	356.
53.0	111.0	15083.0	125.0	-60.4	99.9	304.4	4.6	3.8	-2.6	385.7	999.9	99.9	999.9	21.5	356.
57.9	119.0	16470.1	100.0	-61.8	99.9	52.4	2.6	-2.0	-1.6	408.3	999.9	99.9	999.9	21.0	359.
64.6	129.0	18247.8	75.0	-60.6	99.9	107.1	2.0	-2.0	0.6	446.4	999.9	99.9	999.9	20.5	358.
72.5	141.0	20798.2	50.0	-54.3	99.9	100.5	5.5	-6.4	1.2	515.6	999.9	99.9	999.9	20.3	351.
84.4	155.5	25288.7	25.0	-44.0	99.9	89.1	7.8	-7.8	-0.1	644.3	999.9	99.9	999.9	22.2	335.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 553
OMAHA, NEBRASKA

27 MAY 1977
2005 GMT

154 21. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.5	400.0	962.0	17.8	16.1	220.0	3.6	2.3	2.8	294.2	325.7	12.1	90.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	10.5	507.7	950.0	16.9	99.9	0.0	0.0	0.0	0.0	294.3	999.9	99.9	999.9	0.2	49.
1.2	12.4	774.7	925.0	16.5	10.9	220.4	9.2	5.0	7.0	296.5	320.4	8.9	68.2	0.6	49.
2.2	15.0	949.1	900.0	18.1	10.5	188.6	9.7	1.5	9.6	300.2	324.4	8.9	60.9	1.1	39.
3.0	17.2	1210.0	875.0	16.0	7.7	171.7	10.9	-1.6	10.8	300.4	321.1	7.6	57.8	1.5	26.
3.7	19.4	1455.8	850.0	14.0	6.5	164.5	13.1	-3.1	12.9	300.8	321.2	7.4	62.4	1.9	17.
4.4	21.9	1707.3	825.0	12.1	6.4	165.5	14.8	-3.7	14.3	301.4	321.6	7.3	68.0	2.5	9.
5.2	24.4	1964.2	800.0	9.5	4.7	166.5	16.5	-3.9	16.0	301.3	319.9	6.7	71.6	3.2	4.
6.1	26.6	2227.1	775.0	7.3	2.6	167.6	19.9	-4.3	19.4	301.7	318.4	6.0	71.8	4.2	360.
7.1	29.2	2494.5	750.0	5.4	2.3	172.3	18.4	-2.5	18.6	302.5	319.4	6.1	80.3	5.3	357.
8.3	31.9	2777.6	725.0	3.8	2.0	178.4	19.3	-0.5	19.3	303.6	321.8	6.5	92.8	6.6	357.
9.2	34.5	3058.6	700.0	2.2	1.1	176.0	18.9	-1.3	18.9	304.5	321.7	6.8	92.8	7.7	357.
10.2	37.1	3351.8	675.0	0.4	-0.7	168.4	18.2	-3.7	17.8	306.1	321.5	6.4	92.8	8.8	357.
11.4	39.9	3654.7	650.0	-0.4	-1.4	164.5	19.1	-5.1	18.4	308.5	324.0	5.3	92.7	10.0	355.
12.6	42.6	3968.6	625.0	-1.5	-2.6	165.6	21.2	-5.3	20.5	310.7	325.6	5.1	92.6	11.5	354.
13.7	45.5	4287.4	600.0	-3.1	-4.1	172.1	20.5	-2.8	20.3	312.6	326.5	4.7	92.5	12.9	352.
14.8	48.5	4620.8	575.0	-5.0	-6.1	177.7	21.9	-0.9	21.9	314.2	326.9	4.2	92.1	14.3	354.
15.3	51.4	4972.6	550.0	-6.7	-7.8	178.7	23.7	-0.5	23.7	316.2	327.9	3.9	91.5	16.3	354.
17.8	54.6	5341.1	525.0	-8.8	-10.1	178.1	24.3	-0.8	24.3	317.3	328.3	3.4	90.8	18.4	355.
19.2	57.6	5718.1	500.0	-10.8	-12.3	176.6	23.5	-1.4	23.4	319.8	329.1	3.0	88.7	20.6	355.
20.8	61.0	6110.9	475.0	-13.2	-15.0	176.2	23.4	-1.5	23.4	321.7	329.6	2.5	86.1	22.7	355.
22.2	64.4	6521.7	450.0	-15.3	-17.5	172.8	18.9	-2.4	18.8	324.0	330.9	2.1	83.0	24.8	355.
23.1	67.9	6951.1	425.0	-18.7	-21.2	167.9	20.7	-4.4	20.3	325.1	330.5	1.6	80.0	26.1	355.
25.0	71.1	7400.5	400.0	-22.0	-29.6	167.2	20.7	-4.6	20.2	326.5	329.3	0.8	49.6	27.8	354.
26.4	75.0	7872.4	375.0	-25.4	-32.7	169.2	21.8	-4.1	21.4	328.0	330.3	0.6	50.0	29.5	354.
27.4	79.0	8369.4	350.0	-29.4	-36.5	166.3	22.9	-5.4	22.2	329.2	330.9	0.5	49.4	31.4	354.
29.5	83.0	8894.5	325.0	-33.5	-41.0	163.4	20.5	-5.8	19.6	330.6	331.7	0.3	46.1	33.8	353.
31.6	87.2	9451.7	300.0	-37.8	-45.3	161.5	22.1	-7.0	20.9	332.2	333.0	0.2	44.8	36.4	352.
33.7	91.5	10045.0	275.0	-42.7	99.9	162.9	22.3	-6.7	21.3	333.4	999.9	99.9	999.9	39.0	352.
35.6	95.6	10681.8	250.0	-47.4	99.9	161.6	27.2	-9.6	25.8	335.6	999.9	99.9	999.9	41.8	351.
37.5	101.6	11369.9	225.0	-53.1	99.9	157.9	23.0	-8.7	21.3	337.1	999.9	99.9	999.9	44.6	350.
39.6	107.3	12120.7	200.0	-58.7	99.9	173.0	24.9	-3.1	24.9	339.9	999.9	99.9	999.9	47.4	350.
42.0	113.0	12949.4	175.0	-63.9	99.9	174.9	19.8	-1.8	19.7	344.7	999.9	99.9	999.9	50.6	350.
44.4	119.7	13913.4	150.0	-58.1	99.9	206.1	13.4	5.9	12.1	370.1	999.9	99.9	999.9	53.5	351.
47.5	127.0	15064.8	125.0	-57.9	99.9	234.9	6.9	5.5	3.9	390.1	999.9	99.9	999.9	54.2	352.
50.5	135.0	16447.3	100.0	-59.3	99.9	257.9	4.1	0.1	0.2	413.1	999.9	99.9	999.9	55.8	353.
55.8	143.0	18259.0	75.0	-59.5	99.9	186.7	5.2	0.6	5.1	449.2	999.9	99.9	999.9	55.9	353.
62.5	151.3	20915.6	50.0	-56.2	99.9	89.9	5.3	-5.3	-0.1	511.0	999.9	99.9	999.9	57.4	351.
73.8	160.3	24275.1	25.0	-51.4	99.9	103.6	8.4	-8.2	2.0	637.2	999.9	99.9	999.9	57.6	346.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 562
NORTH PLATTE, NEBRASKA

27 MAY 1977
2100 GMT

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.1	847.0	909.2	23.3	9.9	250.0	3.2	3.0	1.1	304.6	327.3	8.1	41.6	0.0	0.
99.9	99.9	90.0	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	90.0	975.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	90.0	950.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.0	925.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.2	15.0	935.9	900.0	21.9	99.9	197.1	1.9	0.6	1.8	304.0	999.9	99.9	999.9	0.2	62.
0.9	17.1	1178.7	875.0	19.7	5.6	224.9	2.5	1.9	2.0	304.3	322.7	6.5	36.5	0.2	56.
1.5	19.5	1427.2	850.0	17.2	4.1	240.5	4.0	3.5	2.0	304.1	321.3	6.1	42.0	0.4	57.
2.0	21.5	1681.0	825.0	15.0	4.1	238.2	3.1	2.7	1.6	304.4	322.1	6.3	48.2	0.5	58.
2.7	24.7	1940.7	800.0	12.2	3.0	269.9	2.7	2.7	0.1	304.1	321.0	6.0	53.7	0.6	58.
3.4	26.6	2205.6	775.0	9.4	2.9	293.4	3.2	3.0	-1.2	304.4	321.6	6.1	62.1	0.7	66.
4.9	29.2	2474.7	750.0	6.9	1.8	293.2	5.0	4.6	-2.0	304.1	320.6	5.9	70.1	0.8	73.
4.2	31.9	2750.2	725.0	4.4	-4.7	291.0	9.6	8.9	-3.4	304.3	315.1	3.7	51.4	1.1	87.
5.6	34.6	3032.4	700.0	2.7	-9.1	274.9	8.9	8.2	-0.7	305.4	313.6	2.8	41.6	1.2	95.
6.7	37.1	3322.5	675.0	0.8	-12.0	262.9	9.4	9.4	1.2	306.6	313.4	2.3	37.7	2.5	92.
8.9	39.9	3614.9	650.0	-1.4	-13.4	254.9	10.7	10.3	2.8	307.4	313.7	2.1	39.5	3.2	90.
9.8	42.6	3914.3	625.0	-3.8	-14.9	247.7	9.6	8.9	3.6	308.2	314.1	1.9	41.5	3.9	86.
10.9	45.5	4217.0	600.0	-6.3	-19.2	241.6	10.2	9.0	4.9	308.9	313.6	1.5	38.1	4.5	83.
12.3	48.5	4526.0	575.0	-8.0	-23.7	230.6	10.0	7.7	6.3	310.6	313.8	1.0	27.0	5.3	79.
13.7	51.6	4843.1	550.0	-10.4	-27.5	222.0	7.9	5.3	5.9	311.9	314.2	0.7	22.9	5.3	75.
15.0	54.8	5200.0	525.0	-13.7	-29.2	230.3	9.6	6.6	5.5	311.9	314.1	0.6	25.7	6.4	72.
16.5	57.7	5547.7	500.0	-16.6	-30.4	226.9	10.6	7.7	7.2	312.9	314.9	0.6	28.9	7.2	70.
18.0	61.0	5891.5	475.0	-19.1	-33.5	224.5	11.2	7.8	8.0	314.3	315.9	0.5	26.6	8.2	66.
19.6	64.6	6241.3	450.0	-22.9	-35.7	240.0	12.5	10.9	6.3	314.4	315.8	0.4	29.8	9.2	65.
21.1	68.0	6597.6	425.0	-25.7	-38.3	247.3	14.4	12.7	6.7	314.1	317.1	0.3	28.4	10.4	65.
22.7	71.4	7004.4	400.0	-29.0	-43.0	229.9	14.7	11.3	9.5	317.3	318.1	0.2	24.4	11.8	64.
24.4	75.3	7363.1	375.0	-32.4	-46.1	230.5	16.2	12.5	10.3	319.1	319.7	0.2	23.2	13.5	62.
26.6	79.3	8246.3	350.0	-35.9	-47.3	238.2	17.8	15.2	9.4	320.3	320.7	0.1	23.4	15.5	61.
28.5	83.4	8727.1	325.0	-39.9	99.9	236.6	17.5	14.6	9.6	321.7	999.9	99.9	999.9	17.6	61.
30.5	87.7	9299.3	300.0	-43.8	99.9	225.9	16.9	12.1	11.7	323.7	999.9	99.9	999.9	19.6	60.
32.6	92.4	9873.1	275.0	-47.0	99.9	213.2	14.8	9.2	14.1	327.2	999.9	99.9	999.9	21.6	58.
35.0	97.2	10509.3	250.0	-46.9	99.9	199.7	14.5	4.9	13.7	336.4	999.9	99.9	999.9	23.6	55.
37.4	102.3	11204.8	225.0	-48.6	99.9	192.5	13.6	3.0	13.3	344.1	999.9	99.9	999.9	25.1	52.
40.4	109.0	11979.3	200.0	-49.2	99.9	201.9	14.3	6.1	15.2	354.8	999.9	99.9	999.9	27.3	48.
43.4	116.0	12851.0	175.0	-52.1	99.9	219.7	13.0	8.9	10.7	363.9	999.9	99.9	999.9	29.9	47.
46.8	120.5	13850.9	150.0	-52.7	99.9	238.7	13.0	11.1	6.7	379.3	999.9	99.9	999.9	32.8	47.
50.8	127.7	14920.3	125.0	-56.9	99.9	239.1	7.6	6.2	4.3	392.0	999.9	99.9	999.9	35.3	48.
55.7	135.9	16021.8	100.0	-59.7	99.9	222.8	7.3	4.9	5.3	412.4	999.9	99.9	999.9	37.3	48.
61.4	143.3	17220.6	75.0	-60.0	99.9	179.5	3.7	-0.0	3.7	447.2	999.9	99.9	999.9	39.2	47.
70.1	152.0	20774.8	50.0	-55.7	99.9	94.2	4.4	-4.4	0.3	512.1	999.9	99.9	999.9	39.8	48.
93.1	160.7	25248.9	25.0	-50.0	99.9	999.9	999.9	99.9	99.9	638.6	999.9	99.9	999.9	34.9	48.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 654
MURON, SOUTH DAKOTA

27 MAY 1977
2100 GMT

145 36. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.7	392.0	954.7	21.1	19.9	180.0	5.1	0.0	5.1	297.8	335.8	14.5	87.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	999.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	10.3	471.2	950.0	20.0	16.8	188.7	9.2	1.4	9.1	297.5	331.4	12.9	81.7	0.3	2.
0.9	12.7	700.8	925.0	17.8	14.6	186.9	10.3	1.2	10.3	297.5	327.7	11.4	81.9	0.5	5.
1.7	15.2	935.1	900.0	16.4	12.2	182.7	11.5	0.5	11.5	298.4	325.1	10.0	78.1	1.0	5.
2.6	17.6	1171.7	875.0	14.6	10.2	178.2	12.7	-0.4	12.7	299.0	323.2	9.0	74.6	1.6	3.
3.1	19.9	1410.6	850.0	12.8	8.6	176.9	13.5	-0.7	13.6	299.8	322.5	8.4	76.5	2.1	2.
3.8	22.1	1650.9	825.0	11.4	6.5	178.1	12.3	-0.6	12.0	300.9	321.2	7.4	70.7	2.6	1.
4.5	24.7	1892.3	800.0	9.9	5.1	179.9	12.9	-0.2	12.9	301.8	320.9	6.9	71.7	3.2	1.
5.7	27.0	2130.7	775.0	8.0	4.0	179.4	13.2	-1.7	13.1	302.4	320.9	6.6	75.7	3.8	360.
6.0	29.7	2451.0	750.0	6.1	2.4	177.4	12.3	-1.4	12.5	303.2	320.2	6.1	77.1	4.3	359.
6.3	32.7	2778.1	725.0	3.6	1.9	193.7	10.3	0.7	10.4	303.4	320.6	6.1	88.9	4.9	358.
7.7	35.1	3027.7	700.0	2.1	1.0	197.1	10.7	3.2	10.2	304.2	321.5	5.9	92.7	5.4	360.
8.5	37.6	3317.8	675.0	0.2	-0.5	212.9	10.2	5.6	9.6	305.9	321.6	5.5	94.9	5.9	2.
9.5	40.3	3618.0	650.0	-1.4	-2.6	224.1	11.1	7.7	7.5	307.4	321.5	4.9	90.9	6.4	5.
10.5	43.1	3933.0	625.0	-3.2	-4.7	230.1	11.8	9.1	7.6	308.9	321.5	4.3	86.8	6.9	9.
11.5	45.1	4152.5	600.0	-4.6	-8.1	225.0	12.0	8.5	8.5	310.8	321.2	3.5	76.7	7.4	13.
12.1	48.1	4536.7	575.0	-6.6	-9.7	227.2	11.5	8.1	10.2	312.3	322.7	3.5	84.8	8.0	15.
13.1	52.0	4977.8	550.0	-8.9	-9.8	185.5	10.1	1.0	10.1	313.4	323.7	3.4	96.7	8.6	15.
14.5	55.1	5287.9	525.0	-9.9	-10.2	177.3	13.4	-0.6	13.4	316.5	326.9	3.4	98.0	9.2	13.
15.5	58.1	5640.1	500.0	-11.9	-13.3	174.2	15.9	-1.6	15.7	319.6	327.9	3.0	96.7	10.2	12.
16.7	61.4	6060.1	475.0	-14.7	-16.7	173.8	19.0	-1.7	18.9	319.8	326.7	2.2	84.7	11.3	10.
17.7	65.0	6468.8	450.0	-18.4	-20.9	173.3	24.6	-3.0	24.4	322.4	327.7	1.6	68.9	12.7	8.
18.4	68.0	6855.6	425.0	-19.9	-23.7	171.1	29.4	-4.6	29.1	324.4	328.8	1.3	67.3	14.4	6.
19.1	71.4	7288.0	400.0	-22.7	-24.9	171.7	30.4	-4.6	30.0	325.5	329.7	1.3	63.4	16.6	4.
21.4	75.1	7813.8	375.0	-25.8	-32.5	144.4	29.9	-5.8	29.3	327.5	329.8	0.7	53.0	18.9	3.
22.7	79.1	8319.8	350.1	-29.4	-36.0	146.8	32.1	-7.4	31.3	329.9	330.7	0.5	52.0	21.1	1.
24.1	82.9	8835.1	325.3	-33.7	-40.9	165.7	31.7	-8.3	30.7	330.2	331.4	0.3	48.4	23.7	359.
25.4	86.9	9331.4	300.0	-38.1	-44.9	155.6	31.1	-7.7	30.1	331.7	332.5	0.2	45.0	26.5	358.
27.6	91.4	9883.6	275.0	-42.3	99.9	142.2	33.6	-10.3	32.0	332.6	999.9	99.9	999.9	29.9	356.
28.2	95.3	10418.7	250.0	-47.5	99.9	158.5	36.7	-12.7	32.3	335.0	999.9	99.9	999.9	33.5	354.
31.7	100.7	11106.3	225.0	-53.4	99.9	160.3	33.9	-11.4	31.8	339.7	999.9	99.9	999.9	37.3	353.
33.1	104.9	11659.7	200.0	-56.3	99.9	162.4	32.7	-9.9	31.2	338.9	999.9	99.9	999.9	41.2	352.
35.4	111.4	12496.8	175.0	-58.9	99.9	168.6	24.1	-4.8	23.6	352.8	999.9	99.9	999.9	45.9	351.
38.5	117.9	13360.8	150.0	-56.0	99.9	181.1	17.3	0.9	17.3	373.6	999.9	99.9	999.9	49.0	351.
41.0	124.8	14273.6	125.0	-55.3	99.9	192.5	8.9	1.9	8.7	393.0	999.9	99.9	999.9	51.3	352.
45.4	132.9	15434.2	100.0	-56.9	99.9	141.7	6.5	0.2	6.5	418.0	999.9	99.9	999.9	53.1	353.
51.3	140.0	16337.8	75.0	-59.5	99.9	136.7	5.0	-3.4	3.6	448.1	999.9	99.9	999.9	53.8	352.
53.1	144.3	20737.0	50.0	-65.9	99.9	999.9	999.9	99.9	99.9	511.8	999.9	99.9	999.9	55.4	351.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 5 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 5 DEG

STATION NO. 642
RAPID CITY, SOUTH DAKOTA

27 MAY 1977
2026 GMT

153 10. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.2	686.0	893.0	23.9	6.2	320.0	5.1	3.3	-3.9	306.8	325.8	6.7	32.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	900.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	17.9	1147.9	875.0	21.9	2.0	271.9	4.8	4.8	-0.1	306.5	321.0	5.0	26.8	0.2	101.
1.3	20.4	1193.4	850.0	19.1	0.7	259.1	4.9	4.8	1.0	306.2	319.9	4.9	29.1	0.4	93.
2.4	22.9	1238.5	825.0	16.5	0.3	251.7	5.1	5.8	1.9	306.0	319.7	4.7	33.3	0.7	82.
3.5	25.3	1283.9	803.0	14.2	-1.8	249.0	6.9	6.4	2.5	306.1	318.5	4.2	33.1	1.2	78.
4.5	27.8	1329.1	775.0	11.9	-2.9	248.9	7.2	6.7	2.6	306.5	318.2	4.0	35.7	1.6	75.
5.7	30.4	1380.2	750.0	9.1	-3.2	256.9	8.0	7.8	1.8	306.4	318.2	4.0	41.9	2.1	75.
7.1	33.9	1438.7	725.0	6.2	-4.1	259.0	8.3	8.1	2.0	306.7	317.6	3.9	47.5	2.9	76.
8.2	35.9	1515.5	700.0	4.2	-4.9	258.2	8.9	8.4	3.0	307.1	318.3	3.9	51.5	3.4	75.
9.3	38.5	1570.0	675.0	1.4	-5.4	257.6	9.1	8.4	3.5	307.3	316.2	3.8	47.9	3.9	74.
10.5	41.3	1612.4	650.0	-1.4	-9.4	244.7	10.0	9.1	4.2	307.4	316.1	2.9	54.2	4.6	73.
11.8	44.1	1657.5	625.0	-3.9	-11.1	246.5	10.6	9.8	4.3	307.9	315.9	2.6	57.5	5.4	72.
13.2	47.3	4744.4	600.0	-6.2	-20.6	241.9	8.9	7.9	4.2	308.9	312.8	1.2	31.1	6.3	71.
14.4	50.3	4576.7	575.0	-8.0	-26.7	241.5	9.4	8.3	4.5	310.7	313.1	0.7	20.4	6.9	70.
15.7	53.7	4820.5	550.0	-9.8	-29.4	243.5	10.2	9.2	4.6	312.4	314.5	0.6	18.2	7.6	69.
16.7	56.4	5227.8	525.0	-12.5	-33.5	237.9	10.1	8.6	5.4	313.4	314.9	0.4	15.2	8.3	69.
17.9	59.7	5449.0	500.0	-15.9	-35.6	233.4	8.7	6.0	6.3	313.6	314.9	0.4	16.4	9.0	68.
19.4	63.1	5692.0	475.0	-19.3	-37.3	215.8	7.3	4.3	6.0	314.0	315.2	0.3	18.5	9.5	66.
20.9	66.6	5971.7	450.0	-22.5	-41.5	206.6	5.5	2.5	4.9	315.0	315.7	0.2	15.7	10.1	64.
22.4	70.1	6248.7	425.0	-26.1	-44.3	200.5	3.8	1.3	3.5	315.6	316.2	0.2	16.0	10.4	62.
24.1	73.9	6546.1	400.0	-29.7	-46.7	204.4	4.0	1.9	4.2	316.4	316.9	0.1	17.3	10.7	61.
25.6	77.9	6841.4	375.0	-32.9	-49.3	191.3	7.4	1.4	7.2	318.5	318.9	0.1	16.7	11.0	59.
27.2	81.8	7128.6	350.	-35.4	-52.1	190.3	11.9	2.1	11.7	321.1	321.4	0.1	16.0	11.6	56.
28.0	85.0	7376.8	325.0	-39.1	-55.0	181.8	17.6	0.5	17.6	322.8	323.1	0.1	16.3	12.7	50.
30.7	90.6	7880.9	300.0	-43.0	99.9	171.2	24.0	-3.7	23.7	324.7	999.9	99.9	999.9	14.1	42.
32.7	95.3	8267.8	275.7	-45.9	99.9	167.4	27.1	-5.9	26.5	328.9	999.9	99.9	999.9	16.1	34.
34.7	100.2	10408.2	250.0	-49.1	99.9	165.1	24.6	-6.3	23.7	337.0	999.9	99.9	999.9	18.3	27.
36.8	105.5	11181.4	225.0	-49.9	99.9	170.5	22.8	-3.8	22.5	343.6	999.9	99.9	999.9	20.7	21.
39.5	111.3	11956.8	200.0	-49.0	99.9	180.7	21.0	0.3	21.0	355.3	999.9	99.9	999.9	23.9	18.
42.1	117.3	12731.0	175.0	-49.5	99.9	188.5	15.8	3.0	14.9	368.2	999.9	99.9	999.9	26.9	16.
45.4	124.3	13496.8	150.0	-51.5	99.9	211.9	12.5	6.6	10.6	381.4	999.9	99.9	999.9	29.4	17.
48.7	131.3	14016.1	125.0	-54.6	99.9	207.9	9.7	4.4	8.6	396.1	999.9	99.9	999.9	31.4	15.
52.0	138.0	14439.2	100.0	-54.0	99.9	192.2	9.4	2.0	9.1	423.3	999.9	99.9	999.9	34.0	18.
57.0	146.7	14969.7	75.0	-57.3	99.9	142.3	5.7	-1.6	5.4	452.9	999.9	99.9	999.9	35.8	18.
65.3	155.0	20940.1	50.0	-54.4	99.9	114.9	5.2	-4.7	2.2	515.4	999.9	99.9	999.9	36.7	15.
77.1	161.3	25325.9	25.0	-50.2	99.9	999.9	999.9	99.9	99.9	640.7	999.9	99.9	999.9	36.1	8.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 11601
MARSHALL SFC, ALABAMA

27 MAY 1977
2047 GMT

128 50. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	5.5	190.0	.989.1	25.8	19.4	50.0	3.1	-2.4	-2.0	299.9	338.	14.6	68.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.6	7.7	304.1	975.0	23.2	16.5	999.9	999.9	99.9	99.9	298.5	331.0	12.2	66.0	999.9	999.
1.4	9.8	532.4	950.0	21.9	15.2	999.9	999.9	99.9	99.9	299.9	330.4	11.9	70.3	999.9	999.
2.4	11.6	762.9	925.0	19.7	13.0	999.9	999.9	99.9	99.9	298.4	325.8	10.3	65.6	0.4	269.
3.3	13.7	990.1	900.0	17.4	11.1	106.0	2.8	-2.7	0.8	299.5	324.5	9.3	66.3	0.8	272.
4.4	15.8	1218.6	875.0	16.1	10.5	102.6	2.1	-2.0	0.4	300.8	325.5	9.2	65.2	0.8	270.
5.2	17.9	1448.6	850.0	14.7	9.6	66.9	1.3	-1.2	-0.5	301.1	325.3	8.9	73.8	0.9	272.
6.2	20.0	1678.9	825.0	12.4	9.2	351.3	0.9	0.1	-0.9	301.9	324.8	8.4	79.0	0.9	273.
7.1	22.1	1906.0	800.0	10.5	7.3	5.1	1.2	-0.1	-1.2	302.3	324.5	8.1	80.7	0.9	268.
8.4	24.3	2139.6	775.0	9.2	5.2	27.4	2.2	-1.0	-1.9	303.7	323.7	7.2	75.8	0.9	261.
9.4	26.3	2370.9	750.0	8.0	3.2	35.8	2.3	-1.3	-1.9	305.2	323.5	6.5	71.8	1.0	256.
10.4	28.5	2602.8	725.0	6.3	1.5	34.8	1.9	-1.1	-1.5	306.4	323.2	5.9	71.4	1.1	251.
11.4	30.8	2834.7	700.0	4.1	-0.1	46.2	0.8	-0.6	-0.5	307.9	322.6	5.4	73.9	1.2	249.
12.5	33.2	3072.8	675.0	2.0	-0.2	53.4	0.9	-0.7	-0.5	307.9	324.0	5.6	85.2	1.2	248.
13.7	35.5	3304.9	650.0	0.5	-4.4	65.5	2.1	-1.9	-0.9	309.5	322.0	4.2	69.5	1.3	247.
14.9	37.9	4013.2	625.0	-1.4	-6.8	97.2	4.3	-4.3	0.5	310.9	321.8	3.7	60.8	1.5	249.
16.1	40.4	4295.1	600.0	-2.1	-11.5	91.2	5.6	-5.6	0.1	313.7	321.8	2.6	46.2	1.8	256.
17.4	43.0	4579.1	575.0	-2.9	-14.4	76.5	6.7	-6.4	-2.0	316.6	322.5	1.9	30.4	2.4	257.
18.7	45.5	5021.8	550.0	-5.6	-21.0	77.1	9.3	-9.1	-2.1	317.4	321.6	1.3	28.5	3.2	257.
20.2	48.2	5337.9	525.0	-7.3	-23.1	84.9	9.3	-9.3	-0.5	319.7	323.5	1.1	28.8	3.9	257.
21.6	50.8	5766.1	500.0	-9.5	-28.4	81.6	8.7	-8.6	-0.7	321.4	324.4	0.9	23.6	4.3	258.
23.2	53.6	6140.0	475.0	-12.3	-29.7	66.2	7.9	-7.6	-1.6	322.7	325.3	0.7	24.0	4.7	258.
24.7	56.4	6573.7	450.0	-15.3	-30.6	76.5	7.4	-7.3	-0.9	324.0	326.2	0.7	25.6	5.0	257.
26.3	59.4	7000.0	425.0	-18.4	-33.3	73.3	8.2	-8.1	-0.6	325.4	327.3	0.5	25.6	5.3	257.
28.8	62.4	7449.9	400.0	-22.2	-35.5	3.9	7.6	-0.2	-2.6	326.2	327.9	0.5	22.6	5.4	256.
29.9	65.6	7920.2	375.0	-26.5	-38.3	359.1	3.4	1.6	-3.5	326.5	327.8	0.4	31.6	5.4	252.
31.6	68.9	8413.7	350.0	-31.3	-41.9	353.7	3.0	0.3	-3.0	327.0	328.0	0.3	33.1	5.4	248.
33.3	72.1	8934.0	325.0	-35.8	-46.6	40.2	1.5	-1.1	-1.0	327.3	328.0	0.2	31.6	5.5	246.
35.5	75.4	9489.2	300.0	-40.5	99.9	149.3	1.7	-0.3	1.6	329.3	999.9	99.9	999.9	5.5	247.
37.5	78.5	10071.4	275.0	-45.9	99.9	153.8	3.4	-1.5	3.0	328.9	999.9	99.9	999.9	5.5	256.
39.9	81.5	10699.3	250.0	-51.7	99.9	175.3	3.6	-0.3	3.6	329.2	999.9	99.9	999.9	5.5	255.
42.0	87.5	11373.7	225.0	-57.2	99.9	215.5	3.3	1.9	2.7	330.9	999.9	99.9	999.9	5.3	256.
44.6	92.8	12109.2	200.0	-61.8	99.9	238.7	2.1	1.8	1.1	334.9	999.9	99.9	999.9	5.0	261.
47.4	95.8	12899.8	175.0	-62.1	99.9	266.4	4.7	4.7	0.6	347.1	999.9	99.9	999.9	4.3	269.
50.6	102.9	13781.2	150.0	-63.7	99.9	301.5	8.9	7.6	-4.6	368.3	999.9	99.9	999.9	2.5	243.
54.5	108.8	15009.1	125.0	-63.2	99.9	307.6	4.9	3.9	-3.0	393.6	999.9	99.9	999.9	2.5	207.
58.1	114.7	16290.2	100.0	-60.1	99.9	295.8	4.9	4.3	-2.1	411.6	999.9	99.9	999.9	2.8	183.
66.6	122.0	19164.1	75.0	-63.9	99.9	4.2	4.2	-0.3	-4.2	448.9	999.9	99.9	999.9	3.8	166.
71.9	130.8	20711.0	50.0	-56.0	99.9	999.9	99.9	99.9	99.9	511.5	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 0 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 0 DEG

Sounding Data

27 May 1977

2300 GMT

STATION NO. 229
CENTERVILLE, ALABAMA

27 MAY 1977
2320 GMT

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

196 10. 1

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.0	140.0	992.0	25.4	20.1	50.0	1.5	-1.1	-1.0	299.4	339.7	12.2	71.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	5.5	292.4	975.0	24.5	18.4	144.0	1.9	0.2	1.9	299.5	336.4	13.4	68.9	0.2	250.
1.5	10.9	519.8	950.0	22.5	17.3	116.2	2.9	-2.6	1.3	300.0	335.2	13.2	78.2	0.2	266.
2.3	13.1	751.5	925.0	20.3	16.8	98.4	3.9	-3.9	0.6	300.0	335.0	13.2	80.4	0.4	271.
3.3	15.5	988.1	900.0	19.5	15.5	94.6	3.1	-3.1	0.2	300.6	333.7	12.4	82.8	0.6	274.
4.2	17.8	1229.8	875.0	18.9	13.1	46.2	1.8	-1.3	-1.3	301.2	330.7	11.8	76.3	0.8	273.
5.1	20.3	1476.9	850.0	15.1	12.0	347.9	2.4	0.5	-2.4	302.0	330.3	10.4	81.4	0.4	260.
5.9	22.6	1729.5	825.0	12.8	11.0	338.3	3.0	1.1	-2.7	302.2	329.6	10.1	88.8	0.7	256.
6.9	25.2	1987.9	800.0	11.0	9.0	326.6	3.3	1.8	-2.8	302.9	327.7	9.1	87.7	0.7	241.
7.8	27.6	2252.9	775.0	9.3	7.7	316.6	4.2	2.9	-3.0	303.9	327.5	8.8	89.5	0.7	228.
8.9	30.2	2524.5	750.0	7.7	5.5	308.0	4.9	3.9	-3.0	305.0	326.2	7.8	88.9	0.7	209.
9.7	32.9	2804.2	725.0	6.1	5.1	300.5	4.7	4.9	-2.9	306.2	327.6	7.6	93.0	0.8	189.
10.6	35.5	3091.9	700.0	4.6	2.9	289.8	6.2	5.9	-2.1	307.4	328.8	6.8	89.1	1.0	166.
11.7	38.3	3387.8	675.0	2.9	1.6	282.2	5.2	5.1	-1.1	308.8	327.2	6.4	91.7	1.2	150.
12.9	40.9	3692.9	650.0	0.5	-0.1	287.3	4.5	4.4	-1.4	309.7	326.7	5.9	95.0	1.5	141.
13.9	43.9	4007.4	625.0	-1.1	-1.8	293.4	5.3	4.9	-2.1	311.2	327.0	5.4	94.8	1.8	136.
15.1	46.5	4332.7	600.0	-3.1	-3.9	299.9	5.6	4.9	-2.8	312.5	326.7	4.9	94.5	2.1	132.
16.3	49.8	4669.1	575.0	-4.5	-5.6	303.6	5.9	4.9	-3.3	314.3	327.5	4.4	94.4	2.5	131.
17.5	52.6	5019.8	550.0	-5.5	-6.6	302.7	7.8	6.5	-4.2	317.1	330.0	4.3	94.6	3.0	130.
18.5	55.6	5382.1	525.0	-8.0	-9.5	312.7	8.4	6.2	-5.7	319.4	329.3	3.6	91.5	3.7	129.
20.3	58.9	5758.9	500.0	-12.1	-32.7	326.8	7.0	3.9	-5.9	319.3	320.0	0.9	16.1	4.4	131.
21.6	62.1	6149.3	475.0	-14.4	-42.9	339.4	4.6	1.6	-4.3	320.1	320.8	0.2	6.8	4.8	133.
23.1	65.4	6555.6	450.0	-15.3	-38.8	354.1	2.4	0.2	-2.4	324.0	325.1	0.3	11.4	5.1	134.
24.6	68.9	6979.4	425.0	-18.1	-35.1	7.5	1.7	-0.2	-1.6	325.4	327.4	0.4	20.8	5.2	136.
26.1	72.3	7420.6	400.0	-21.4	-34.3	34.6	1.9	-1.1	-1.6	327.1	329.9	0.5	30.3	5.3	137.
27.9	76.1	7910.4	375.0	-25.9	-36.7	29.0	1.2	-0.6	-1.1	327.3	328.8	0.4	35.3	5.3	139.
29.8	80.1	8406.1	350.0	-29.8	-39.1	340.4	1.0	0.4	-1.0	328.6	329.9	0.4	39.8	5.3	140.
31.4	84.0	8929.0	325.0	-34.6	-40.8	305.3	3.4	2.8	-2.0	329.1	330.2	0.3	42.8	5.5	140.
33.6	88.0	9482.9	300.0	-39.5	99.9	284.5	5.8	5.5	-1.4	329.8	999.9	99.9	999.9	6.1	137.
35.8	92.6	10073.9	275.0	-43.4	99.9	258.0	6.4	6.3	0.9	332.3	999.9	99.9	999.9	6.6	134.
38.3	97.0	10709.2	250.0	-49.5	99.9	247.8	6.9	6.4	2.6	334.0	999.9	99.9	999.9	6.9	127.
41.3	102.0	11391.6	225.0	-54.4	99.9	257.8	8.3	8.2	1.8	335.1	999.9	99.9	999.9	7.9	120.
44.8	107.4	12135.5	200.0	-60.9	99.9	252.5	9.4	8.9	2.8	336.5	999.9	99.9	999.9	9.1	111.
48.1	113.0	12949.6	175.0	-64.5	99.9	289.1	11.0	10.4	-3.6	343.6	999.9	99.9	999.9	11.2	107.
52.0	119.0	13903.2	150.0	-62.5	99.9	287.5	9.7	9.2	-2.9	362.4	999.9	99.9	999.9	13.4	109.
57.3	126.0	15032.3	125.0	-63.1	99.9	299.5	8.5	8.0	-2.8	390.8	999.9	99.9	999.9	16.3	108.
63.7	133.7	16399.9	100.0	-65.3	99.9	309.9	8.3	6.4	-5.3	401.7	999.9	99.9	999.9	19.2	110.
72.1	141.3	19193.4	75.0	-66.5	99.9	1.9	9.3	-0.3	-9.3	433.5	999.9	99.9	999.9	22.4	114.
93.6	149.7	20647.2	50.0	-59.0	99.9	71.1	5.0	-4.7	-1.6	504.6	999.9	99.9	999.9	28.7	121.
103.5	159.7	25091.5	25.0	-50.9	99.9	124.1	9.5	-4.6	7.1	638.9	999.9	99.9	999.9	38.5	128.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 235
JACKSON, MISSISSIPPI

27 MAY 1977
2300 GMT

161 14. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	6.3	130.0	995.2	30.2	18.0	300.0	4.2	3.6	-2.1	303.8	339.4	13.2	48.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	9.3	282.8	975.0	27.6	17.4	292.3	6.7	6.2	-2.5	303.0	337.9	12.9	53.6	0.2	116.
1.5	10.7	512.5	950.0	25.9	16.6	287.9	5.9	5.6	-1.8	303.4	337.6	12.7	57.1	0.5	112.
2.5	13.1	746.9	925.0	23.5	15.4	286.8	5.0	4.7	-1.7	303.3	335.9	12.0	60.6	0.9	110.
3.3	15.6	995.6	900.0	20.9	14.6	287.0	5.6	5.6	-1.7	303.1	334.9	11.7	67.1	1.2	109.
4.0	18.0	1220.2	875.0	19.0	14.4	289.7	4.7	4.4	-1.6	303.5	335.8	11.9	74.5	1.4	109.
5.1	20.5	1479.1	850.0	16.8	14.0	297.1	4.7	4.2	-2.1	303.7	336.1	11.9	82.8	1.7	110.
6.0	23.1	1732.3	825.0	14.5	12.9	302.8	4.6	3.9	-2.5	303.9	335.1	11.5	90.6	1.9	111.
7.0	25.5	1982.5	800.0	12.9	10.9	312.0	5.2	3.9	-3.5	304.9	333.1	10.3	86.8	2.2	113.
7.9	28.1	2258.9	775.0	11.0	9.8	326.3	5.7	3.2	-4.8	305.7	331.4	9.3	86.5	2.5	116.
8.4	31.0	2532.0	750.0	8.9	6.3	343.2	6.9	2.0	-6.6	306.2	328.6	8.0	84.2	2.9	123.
12.1	33.9	2813.3	725.0	9.9	-6.8	344.3	8.5	2.3	-8.2	310.3	319.8	3.2	30.1	3.9	135.
13.1	36.6	3103.3	700.0	7.1	-7.2	344.0	10.3	2.8	-9.9	310.4	319.9	3.2	35.3	4.4	138.
13.9	39.5	3401.4	675.0	4.8	-2.0	345.1	9.7	2.5	-9.3	311.1	325.5	4.9	61.2	4.8	141.
14.9	42.3	3709.7	650.0	3.9	-9.8	336.6	9.9	3.9	-9.0	313.4	321.9	2.8	36.0	5.4	143.
15.8	45.2	4027.2	625.0	2.6	-13.2	325.5	11.6	6.5	-9.6	315.4	322.4	2.2	30.1	6.0	144.
16.9	48.4	4356.3	600.0	0.5	-10.1	318.3	12.1	9.0	-9.0	316.7	325.9	3.0	44.8	6.7	144.
18.2	51.4	4695.3	575.0	-2.2	-11.1	306.2	12.2	9.9	-7.2	317.4	326.2	2.8	50.3	7.6	142.
19.5	54.8	5047.9	550.0	-4.9	-12.2	301.2	14.1	12.0	-7.3	318.3	326.8	2.7	56.7	8.6	140.
20.9	57.7	5411.9	525.0	-7.9	-13.9	300.2	12.8	11.0	-6.4	319.0	326.8	2.5	61.6	9.6	138.
22.2	61.1	5790.0	500.0	-10.4	-16.5	303.1	11.5	9.6	-6.3	320.4	327.1	2.1	60.7	10.6	136.
23.6	64.6	6183.7	475.0	-12.4	-19.6	311.8	9.5	7.1	-6.3	322.6	328.2	1.7	54.8	11.8	135.
25.0	68.0	6594.2	450.0	-15.9	-23.2	317.0	6.4	4.7	-4.4	323.2	327.6	1.3	53.4	12.2	135.
26.7	71.4	7022.8	425.0	-19.9	-25.6	317.9	4.1	2.7	-3.0	324.7	328.5	1.1	58.5	12.6	135.
29.1	75.2	7471.7	400.0	-22.3	-29.3	284.7	3.2	3.1	-0.8	326.0	329.1	0.9	67.9	13.0	135.
29.9	79.2	7942.3	375.0	-26.0	-29.9	259.4	4.6	4.5	0.9	327.2	330.1	0.8	65.4	13.2	134.
31.7	83.0	8438.7	350.0	-29.4	-34.1	236.8	5.7	4.6	3.1	329.2	331.3	0.6	62.9	13.4	132.
33.5	87.0	8963.3	325.0	-33.9	-38.8	218.6	6.1	3.8	4.8	330.0	331.4	0.4	61.1	13.5	129.
35.5	91.5	9519.2	300.0	-38.5	-43.4	220.7	5.7	3.7	4.3	331.2	332.2	0.3	56.0	13.5	126.
37.6	96.0	10110.8	275.0	-43.4	99.9	210.5	4.8	2.5	4.1	332.3	999.9	99.9	999.9	13.5	123.
39.9	100.9	10745.3	250.0	-49.2	99.9	171.9	3.8	-0.5	3.8	334.5	999.9	99.9	999.9	13.3	121.
42.3	106.0	11431.1	225.0	-53.0	99.9	182.7	6.2	0.3	6.2	337.4	999.9	99.9	999.9	12.9	119.
45.1	111.4	12193.3	200.0	-56.7	99.9	245.9	8.5	7.8	3.5	343.0	999.9	99.9	999.9	12.9	114.
48.1	117.3	13071.2	175.0	-61.4	99.9	275.7	6.4	6.4	-0.6	348.5	999.9	99.9	999.9	14.4	112.
51.5	124.0	14077.5	150.0	-60.3	99.9	269.8	10.9	10.9	0.0	366.2	999.9	99.9	999.9	15.5	106.
55.8	130.8	15099.4	125.0	-63.5	99.9	300.4	9.6	8.3	-4.9	380.0	999.9	99.9	999.9	18.5	108.
60.2	138.3	16471.8	100.0	-62.8	99.9	271.4	6.1	6.1	-0.1	406.5	999.9	99.9	999.9	20.0	109.
64.2	145.5	19225.9	75.0	-64.9	99.9	353.4	5.2	0.6	-5.1	436.9	999.9	99.9	999.9	21.7	109.
76.4	154.0	20777.6	50.0	-58.0	99.9	66.7	4.1	-3.8	-1.6	506.9	999.9	99.9	999.9	21.1	114.
97.2	162.3	25209.7	25.0	-49.4*	99.9	146.4	3.1	-1.7	2.6	643.2	999.9	99.9	999.9	19.8	117.

= BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 240
LAKE CHARLES, LOUISIANA

27 MAY 1977
2300 GMT

182 13. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	5.2	5.0	1008.0	29.4	21.6	200.0	6.2	2.1	5.8	301.9	345.4	16.4	63.0	0.0	0.
0.2	5.7	24.4	1003.0	29.0	21.9	212.1	7.1	3.8	6.0	302.0	346.8	16.9	66.3	0.2	17.
1.2	7.9	301.6	977.0	26.5	20.0	226.3	6.9	5.0	4.7	301.9	342.7	15.3	67.4	0.6	33.
2.2	10.0	570.9	950.0	24.7	18.5	243.9	6.7	5.1	2.5	302.3	340.5	14.3	66.4	0.9	61.
3.1	12.0	764.8	925.0	22.6	17.5	258.7	5.7	5.5	1.1	302.5	339.4	13.8	72.9	1.2	88.
4.2	14.3	1007.3	900.0	20.7	16.3	283.7	5.2	5.1	-1.2	302.9	338.1	13.1	75.8	1.5	86.
5.2	16.3	1244.7	875.0	18.9	14.8	311.7	5.5	4.1	-3.6	303.4	336.5	12.2	77.2	1.7	67.
6.4	18.6	1495.4	850.0	16.7	13.9	328.2	5.9	3.1	-5.1	303.6	335.8	11.8	83.5	1.8	79.
7.5	20.8	1748.9	825.0	15.1	11.9	344.0	6.3	1.7	-6.0	304.5	333.7	10.8	86.6	2.0	90.
8.4	23.2	2010.2	800.0	13.9	10.1	349.8	6.9	1.2	-6.8	304.8	331.7	9.8	83.8	2.1	100.
9.5	25.5	2274.9	775.0	11.6	5.4	356.6	7.7	0.5	-7.7	306.3	326.9	7.3	66.1	2.3	111.
10.4	27.9	2551.2	750.0	12.1	-4.5	2.3	7.7	-0.3	-7.7	309.7	320.6	3.7	31.6	2.4	121.
11.4	30.5	2834.1	725.0	10.0	-9.5	2.0	6.6	-0.2	-6.6	310.4	318.2	2.6	29.1	2.7	130.
12.7	33.0	3125.0	700.0	8.3	-4.0	345.3	5.6	1.7	-6.3	312.3	324.5	4.1	36.6	3.0	136.
13.8	35.4	3425.5	675.0	7.4	-4.2	336.7	7.9	4.4	-6.6	313.9	324.8	3.6	37.5	3.5	138.
15.0	37.9	3735.0	650.0	5.1	-4.1	317.9	9.8	6.9	-6.5	314.9	324.5	3.2	37.8	4.1	139.
16.2	40.5	4055.8	625.0	2.0	-4.1	314.0	10.0	7.3	-6.9	314.9	324.9	3.3	47.2	4.8	138.
17.6	43.2	4391.7	600.0	-0.5	-14.3	311.8	11.8	8.4	-7.9	315.2	321.0	1.8	30.5	5.7	137.
18.8	46.1	4740.7	575.0	-3.0	-19.0	310.3	12.0	9.0	-8.4	315.8	320.1	1.5	29.8	6.6	136.
20.1	49.1	5098.0	550.0	-7.8	-19.2	309.0	15.1	12.4	-13.0	315.4	320.2	1.5	27.9	7.6	136.
21.7	51.9	5438.7	525.0	-8.9	-33.3	307.3	18.1	14.4	-11.2	317.8	318.8	0.3	8.0	9.0	136.
23.3	55.3	5835.6	500.0	-10.3	-43.8	307.5	15.9	12.4	-9.5	320.5	321.1	0.2	4.4	10.5	133.
24.2	58.0	6199.0	475.3	-12.6	-50.6	315.4	15.2	10.7	-13.8	322.4	322.7	0.1	2.4	11.7	133.
25.4	61.3	6639.8	450.0	-16.7	-51.0	325.4	14.0	9.1	-13.2	322.8	323.1	0.1	3.2	13.2	134.
27.5	64.7	7035.8	425.0	-20.0	-49.4	326.1	13.9	10.5	-15.7	323.4	323.8	0.1	5.8	14.6	134.
29.3	68.3	7482.2	400.0	-23.7	-48.3	321.4	21.7	13.5	-17.0	324.2	324.5	0.1	7.0	17.0	137
31.2	71.5	7936.4	375.0	-27.8	-52.3	317.6	23.2	16.8	-16.0	324.8	325.1	0.1	7.6	19.5	137.
33.0	75.3	8442.0	350.0	-31.6	-54.5	314.5	24.3	17.3	-17.1	326.1	326.4	0.1	8.3	22.0	136.
34.9	79.3	8961.8	325.0	-36.0	-55.9	319.9	26.1	16.4	-20.0	327.0	327.3	0.1	10.9	25.0	136.
37.1	83.7	9513.4	300.0	-39.5	99.9	325.7	27.1	15.3	-22.4	329.7	999.9	99.9	999.9	28.4	137.
39.7	87.5	10134.6	275.0	-43.0	99.9	324.7	28.3	15.9	-23.5	332.9	999.9	99.9	999.9	32.2	138.
41.6	93.2	10781.5	250.0	-46.8	99.9	314.1	30.2	21.7	-21.0	336.6	999.9	99.9	999.9	36.0	139.
43.7	97.0	11477.0	225.0	-50.6	99.9	310.5	31.4	23.8	-20.4	340.9	999.9	99.9	999.9	40.5	138.
46.8	102.2	12192.9	200.0	-55.4	99.9	306.2	28.7	23.7	-16.1	344.7	999.9	99.9	999.9	45.3	136.
48.9	108.0	13030.7	175.0	-58.2	99.9	307.9	24.5	19.3	-15.0	353.9	999.9	99.9	999.9	50.3	136.
53.4	114.0	14032.8	150.0	-60.8	99.9	304.1	26.0	21.6	-14.6	365.4	999.9	99.9	999.9	55.3	135.
57.5	121.0	15122.8	125.0	-64.3	99.9	309.7	19.5	14.2	-11.8	378.5	999.9	99.9	999.9	60.7	134.
62.7	128.3	16486.8	100.0	-65.9	99.9	326.9	9.1	4.5	-5.9	400.4	999.9	99.9	999.9	66.6	134.
68.3	134.7	18029.2	75.0	-64.7	99.9	321.5	3.9	2.4	-3.1	437.4	999.9	99.9	999.9	65.6	135.
77.0	144.0	20732.8	50.0	-57.7	99.9	349.7	4.3	0.9	-4.4	507.4	999.9	99.9	999.9	65.2	136.
92.4	152.9	25247.9	25.0	-48.9	99.9	999.9	999.9	99.9	99.9	644.7	999.9	99.9	999.9	63.4	136.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 247
LONGVIEW, TEXAS

27 MAY 1977
2300 GMT

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
													158	14.	0
0.0	7.3	124.0	991.3	31.7	18.3	120.0	2.1	-1.8	1.0	305.4	342.1	13.5	45.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	9.0	290.5	975.0	29.0	17.3	999.9	999.9	99.9	99.9	304.4	339.4	12.9	49.2	999.9	999.
1.1	11.2	521.6	950.0	27.2	17.5	999.9	999.9	99.9	99.9	304.8	341.1	13.4	55.4	999.9	999.
1.9	13.4	757.2	925.0	24.7	16.3	999.9	999.9	99.9	99.9	304.6	339.3	12.8	59.6	999.9	999.
2.4	15.6	997.2	900.0	22.9	15.3	999.9	999.9	99.9	99.9	305.0	338.5	12.3	62.6	999.9	999.
3.2	18.3	1242.0	875.0	20.3	14.2	999.9	999.9	99.9	99.9	304.9	337.0	11.9	66.1	999.9	999.
4.1	20.7	1497.0	850.0	18.2	13.5	999.9	999.9	99.9	99.9	305.2	336.8	11.5	74.1	0.6	354.
4.0	23.2	1767.3	825.0	15.5	13.2	226.9	4.3	3.2	3.0	305.0	336.9	11.7	88.8	0.8	7.
4.8	25.7	2008.2	800.0	13.3	11.8	220.3	4.1	2.7	3.1	305.3	334.9	10.8	89.0	0.9	15.
5.7	28.3	2275.3	775.0	11.2	9.6	222.3	3.6	2.5	2.7	305.9	332.9	9.8	89.7	1.1	19.
7.5	31.0	2540.5	750.0	11.0	1.9	233.0	2.4	1.9	1.5	308.5	325.4	6.9	93.6	1.3	22.
9.4	33.8	2832.1	725.0	9.9	-2.1	259.9	4.3	4.2	0.8	310.3	323.8	4.6	43.2	1.4	27.
9.5	36.3	3129.3	700.0	9.1	-3.4	270.6	7.5	7.5	-0.1	312.6	325.3	4.3	41.2	1.6	38.
10.4	39.1	3423.7	675.0	7.2	-5.0	282.8	9.5	9.3	-2.1	313.8	325.5	3.9	41.5	1.9	51.
11.5	41.8	3723.0	650.0	4.6	-6.8	290.5	11.6	10.9	-4.1	314.2	326.6	4.1	50.5	2.3	65.
12.8	44.8	4051.2	625.0	1.6	-7.1	299.6	13.2	11.4	-6.5	314.3	325.2	3.6	52.2	3.0	79.
13.9	47.8	4378.8	600.0	-1.4	-9.3	302.2	14.8	12.5	-7.9	314.5	324.1	3.2	54.9	3.7	86.
15.2	50.7	4714.3	575.0	-4.5	-10.0	304.0	15.7	13.0	-8.8	314.8	324.3	3.1	65.0	4.8	97.
16.7	53.9	5064.7	550.0	-7.0	-22.2	307.3	16.2	12.9	-9.8	315.8	319.9	1.3	31.3	5.9	102.
17.9	56.8	5425.9	525.0	-9.6	-28.6	304.0	15.5	13.1	-9.8	316.9	319.2	0.7	19.5	7.0	107.
19.0	60.0	5801.6	500.0	-11.4	-33.1	305.1	14.2	11.6	-8.1	319.2	320.8	0.5	14.5	8.0	109.
20.2	63.4	6192.9	475.0	-13.2	-34.5	316.1	13.6	9.4	-9.5	321.7	323.2	0.4	14.6	9.0	111.
21.6	66.7	6603.7	450.0	-16.4	-37.0	325.8	16.8	9.4	-13.9	322.6	323.8	0.3	14.9	10.1	115.
23.1	70.3	7030.1	425.0	-20.2	-39.1	318.4	21.4	14.2	-14.0	323.1	324.2	0.3	16.6	11.6	119.
24.9	74.0	7476.8	400.0	-22.5	-41.0	309.7	26.1	20.1	-16.7	325.8	326.7	0.3	16.5	14.0	121.
25.5	77.9	7945.8	375.0	-26.4	-44.1	312.0	27.1	20.1	-19.1	326.7	327.4	0.2	16.8	16.7	123.
29.2	81.5	8441.7	350.0	-30.1	-47.1	315.9	26.3	18.3	-18.9	328.1	328.7	0.2	17.1	19.4	124.
30.0	85.6	8946.4	325.0	-34.8	-50.8	321.9	26.5	16.4	-20.9	328.8	329.2	0.1	17.6	22.1	126.
32.7	90.0	9518.8	300.0	-38.4	-52.8	320.7	30.9	19.6	-23.9	331.3	331.6	0.1	20.1	25.3	128.
34.0	94.5	10113.2	275.0	-43.4	99.9	325.0	31.4	18.0	-25.7	332.4	999.9	99.9	999.9	29.3	130.
36.3	99.4	10744.9	250.0	-48.5	99.9	320.6	30.5	19.4	-23.6	334.0	999.9	99.9	999.9	33.3	132.
38.7	104.4	11423.8	225.0	-54.0	99.9	307.2	27.7	22.1	-14.8	335.5	999.9	99.9	999.9	37.2	132.
41.5	110.0	12154.7	200.0	-55.5	99.9	309.3	25.9	20.3	-16.0	344.9	999.9	99.9	999.9	41.4	131.
44.5	115.4	12970.4	175.0	-59.5	99.9	315.6	26.2	18.3	-18.7	351.8	999.9	99.9	999.9	46.2	131.
48.2	122.3	13983.8	150.0	-63.3	99.9	314.3	22.9	16.4	-16.0	361.0	999.9	99.9	999.9	52.0	132.
52.2	129.7	15104.7	125.0	-61.0	99.9	314.1	15.3	11.0	-10.7	384.6	999.9	99.9	999.9	57.0	132.
57.4	137.0	16470.7	100.0	-67.3	99.9	320.3	7.0	4.5	-5.4	397.8	999.9	99.9	999.9	59.5	132.
63.8	144.3	18215.1	75.0	-65.5	99.9	22.6	7.1	-2.7	-6.5	435.6	999.9	99.9	999.9	61.9	132.
72.5	152.7	20732.3	50.0	-58.6	99.9	332.5	4.8	2.2	-4.2	505.5	999.9	99.9	999.9	61.2	133.
85.6	160.7	25180.6	25.0	-49.7	99.9	34.7	1.5	-0.9	-1.3	642.2	999.9	99.9	999.9	59.2	135.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 255
VICTORIA, TEXAS

27 MAY 1977
2300 GMT

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES 150 13. 1

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	5.9	33.0	1004.5	28.8	20.5	170.0	6.2	-1.1	6.1	301.5	342.4	15.4	61.0	0.0	0.
0.4	6.4	73.1	1000.0	27.9	20.1	160.3	2.4	-0.9	2.3	301.0	341.0	15.0	62.8	0.2	347.
1.6	8.8	297.5	975.0	25.7	19.2	164.6	5.5	-1.4	5.3	301.0	336.7	14.5	67.4	0.5	345.
2.5	10.9	538.9	950.0	23.2	18.4	169.8	5.3	-1.0	5.2	300.7	330.4	14.2	74.3	0.8	342.
3.4	13.1	758.4	925.0	21.0	17.8	189.0	4.7	0.7	4.7	300.7	328.1	14.0	82.2	1.0	340.
4.4	15.4	995.7	900.0	19.1	16.9	207.7	5.1	2.3	4.5	301.2	327.6	13.7	87.5	1.3	338.
5.2	17.4	1237.9	875.0	18.4	-2.2	207.3	6.0	2.8	5.4	304.0	315.4	4.8	25.0	1.5	1.
6.1	19.5	1487.0	850.0	19.8	-7.9	203.3	5.7	2.2	5.2	306.9	314.6	2.5	14.7	1.8	9.
7.1	22.0	1743.2	825.0	20.4	-23.5	214.6	5.1	2.9	4.2	310.2	312.6	0.7	3.8	2.1	8.
8.1	24.5	2007.9	800.0	19.7	-20.2	235.0	4.6	3.7	2.6	312.1	315.2	1.0	5.3	2.4	12.
10.2	29.4	2559.7	750.0	15.9	-15.1	264.4	3.1	3.1	0.1	313.4	317.3	1.2	7.3	2.5	17.
11.3	32.0	2845.8	725.0	14.1	-1.1	282.3	4.6	4.5	-1.0	314.9	318.9	1.6	10.5	2.6	20.
12.4	34.7	3140.8	700.0	11.7	-1.3	291.1	5.7	5.3	-2.0	315.5	320.3	2.0	12.2	2.7	25.
13.6	37.2	3442.5	675.0	8.5	-1.8	288.8	5.8	5.4	-2.0	315.2	320.0	2.0	12.1	2.7	33.
14.9	40.0	3753.6	650.0	6.4	-3.9	288.1	6.9	6.5	-2.1	316.2	320.5	1.4	8.7	3.1	41.
16.2	42.7	4074.0	625.0	3.5	-9.8	291.5	8.6	8.2	-3.2	316.5	320.5	0.9	5.7	3.4	46.
17.5	45.6	4403.6	600.0	0.4	-11.8	300.1	11.1	9.6	-5.5	316.9	320.4	0.6	4.2	3.9	48.
18.7	48.5	4743.5	575.0	-2.4	-13.2	304.9	12.3	9.6	-7.7	317.2	320.7	0.4	3.2	4.4	49.
19.9	51.3	5094.4	550.0	-5.5	-20.5	309.4	11.5	8.9	-7.3	317.6	320.0	0.3	2.4	4.8	49.
21.2	54.4	5457.5	525.0	-7.9	-40.9	304.8	9.3	7.6	-5.3	319.0	319.3	0.1	1.7	5.2	49.
22.6	57.3	5835.5	500.0	-9.8	-55.6	315.8	10.3	7.1	-7.5	321.5	321.7	0.0	1.0	5.7	49.
24.0	60.6	6230.7	475.0	-11.4	-57.2	320.7	13.9	8.9	-10.8	323.8	324.0	0.0	1.0	6.3	49.
25.5	63.9	6643.0	450.0	-14.5	-52.3	321.2	16.7	10.5	-13.0	325.1	325.3	0.1	2.3	7.0	49.
27.2	67.1	7073.5	425.0	-17.7	-61.1	314.2	17.6	12.6	-12.3	326.3	326.4	0.0	1.0	8.1	48.
28.9	70.6	7524.0	400.0	-21.4	-63.6	308.0	16.8	13.1	-10.6	327.2	327.2	0.0	1.0	9.6	47.
30.4	74.2	7996.3	375.0	-24.9	-60.8	313.1	17.0	12.4	-11.7	329.6	329.6	0.0	1.0	11.3	46.
32.2	78.0	8493.5	350.0	-29.0	-56.7	319.0	18.0	11.5	-13.8	329.7	329.9	0.0	1.0	12.9	45.
34.1	81.9	9018.9	325.0	-33.3	-55.0	321.0	20.7	13.0	-16.1	330.8	331.0	0.1	2.1	14.6	45.
36.0	85.7	9575.0	300.0	-38.1	-55.6	321.1	21.0	13.2	-16.3	331.7	332.0	0.1	2.2	16.7	45.
38.2	90.0	10167.9	275.0	-43.6	99.9	314.2	20.5	14.7	-14.3	332.0	999.9	99.9	999.9	19.0	45.
40.4	94.6	10802.7	250.0	-48.4	99.9	295.4	20.9	18.9	-9.0	334.1	999.9	99.9	999.9	21.6	45.
42.8	99.2	11487.2	225.0	-54.4	99.9	288.3	22.1	20.9	-6.9	335.1	999.9	99.9	999.9	24.3	45.
45.3	104.2	12234.5	200.0	-58.2	99.9	295.1	26.4	23.9	-11.2	340.5	999.9	99.9	999.9	27.2	45.
48.2	110.0	13073.1	175.0	-58.9	99.9	297.0	25.3	25.3	-12.8	352.7	999.9	99.9	999.9	30.8	45.
51.5	115.8	14036.9	150.0	-61.5	99.9	300.1	21.4	18.7	-10.8	364.1	999.9	99.9	999.9	35.6	45.
55.3	122.5	15144.4	125.0	-66.1	99.9	309.6	18.7	15.0	-11.1	371.7	999.9	99.9	999.9	40.9	45.
59.6	129.8	16478.4	100.0	-67.5	99.9	336.8	7.4	2.9	-6.8	397.4	999.9	99.9	999.9	48.1	45.
65.6	138.0	18216.7	75.0	-66.3	99.9	305.3	2.7	2.2	-1.6	499.7	999.9	99.9	999.9	48.5	45.
73.6	145.3	20794.7	50.0	-59.0	99.9	57.5	5.2	-4.3	-2.8	504.6	999.9	99.9	999.9	48.4	45.
87.2	155.5	25210.1	25.0	-48.7	99.9	999.9	999.9	99.9	99.9	650.5	999.9	99.9	999.9	48.3	45.
97.2	155.5	25210.1	25.0	-48.7	99.9	999.9	999.9	99.9	99.9	650.5	999.9	99.9	999.9	48.8	45.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 260
STEPHENVILLE, TEXAS

27 MAY 1977
2300 GMT

152 9. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.3	399.0	960.6	28.5	16.7	160.0	5.2	-1.8	4.9	305.1	339.5	12.6	45.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.3	10.2	497.9	950.0	28.2	17.9	167.1	9.0	-2.0	8.8	305.8	343.1	13.7	53.6	0.4	343.
1.1	12.3	778.4	925.0	26.4	17.9	173.0	9.3	-1.0	9.2	306.3	344.8	14.1	59.7	0.7	346.
2.2	14.6	976.3	900.0	24.5	17.2	183.1	9.4	0.5	9.4	306.8	344.8	13.9	63.9	1.2	351.
3.2	16.7	1222.4	875.0	21.5	16.2	193.1	9.3	2.2	9.1	306.1	342.9	13.4	72.0	1.8	357.
4.2	19.2	1473.7	850.0	18.9	16.0	194.3	9.3	2.3	9.0	306.0	343.1	13.6	83.3	2.3	1.
5.2	21.4	1730.4	825.0	17.-	15.2	203.0	9.5	3.4	7.9	307.0	343.5	13.3	88.7	2.8	4.
6.3	23.8	1993.3	800.0	15.5	12.9	216.5	9.0	5.3	7.2	307.7	340.3	11.8	84.3	3.3	8.
7.3	26.1	2263.0	775.0	14.6	9.8	221.7	8.7	5.5	6.2	309.6	337.4	9.9	72.8	3.8	13.
8.4	28.7	2541.0	750.0	15.3	1.7	233.6	6.4	5.1	3.8	313.2	330.2	5.8	39.9	4.2	16.
9.4	31.3	2827.3	725.0	13.0	1.0	247.6	7.0	6.7	3.5	313.9	330.5	5.7	43.5	4.5	20.
10.5	33.9	3121.4	700.0	11.3	-1.4	241.9	10.1	8.9	4.7	315.0	329.8	5.0	41.3	5.0	25.
11.9	36.4	3424.3	675.0	9.1	-4.8	246.3	10.8	9.9	4.3	315.9	327.9	4.0	37.0	5.6	29.
13.1	39.1	3735.5	650.0	6.5	-5.9	254.6	10.5	10.2	2.8	316.3	327.8	3.3	40.7	6.2	34.
14.4	41.8	4055.7	625.0	3.2	-7.6	259.8	10.7	10.5	1.9	316.1	326.7	3.5	45.0	6.8	39.
15.7	44.7	4385.2	600.0	-0.0	-8.8	259.9	11.5	11.3	2.0	316.1	326.2	3.3	51.7	7.5	43.
17.0	47.6	4724.5	575.0	-2.2	-19.3	270.1	13.0	13.0	-0.0	317.4	322.2	1.5	25.8	8.3	46.
18.5	50.5	5077.2	550.0	-2.9	-29.4	279.2	14.1	13.9	-2.0	320.6	322.9	0.7	11.8	9.1	52.
19.9	53.6	5443.7	525.0	-5.8	-29.7	285.4	14.4	13.9	-3.8	321.5	323.6	0.6	13.1	10.0	58.
21.5	56.4	5824.3	500.0	-8.0	-27.1	294.1	16.0	14.6	-5.5	323.3	326.1	0.8	20.2	10.9	64.
23.0	60.0	6220.6	475.0	-11.0	-29.0	296.7	17.0	15.2	-7.6	324.4	327.1	0.8	23.0	11.9	70.
24.5	63.4	6633.1	450.0	-14.7	-29.1	295.6	17.2	15.5	-7.5	324.8	327.4	0.8	27.8	13.0	75.
26.2	66.9	7062.6	425.0	-18.1	-32.4	300.4	17.3	14.9	-8.8	325.7	327.8	0.6	27.2	14.3	79.
27.9	70.4	7513.8	400.0	-21.8	-34.7	303.6	17.7	14.8	-9.5	326.7	328.5	0.5	29.6	15.7	84.
30.0	74.1	7988.0	375.0	-25.9	-35.5	303.5	20.4	17.0	-11.3	327.4	329.2	0.5	35.6	17.5	89.
32.1	78.2	8483.2	350.0	-29.8	-38.3	298.6	22.4	19.7	-10.8	329.6	330.0	0.4	43.4	19.9	93.
34.6	82.2	9004.9	325.0	-33.1	-45.3	298.5	22.7	19.9	-10.8	331.0	331.8	0.2	28.2	23.0	97.
37.0	86.2	9552.1	300.0	-37.6	-46.2	299.0	24.5	21.5	-11.9	332.4	333.2	0.2	39.7	26.0	100.
39.2	90.9	10157.0	275.0	-42.0	99.9	289.6	29.0	27.4	-9.7	334.3	999.9	99.9	999.9	29.6	101.
41.7	95.7	10794.3	250.0	-47.6	99.9	288.7	29.6	28.1	-9.2	335.3	999.9	99.9	999.9	33.8	102.
44.1	100.5	11481.6	225.0	-53.2	99.9	288.7	26.2	24.8	-8.4	337.0	999.9	99.9	999.9	38.1	103.
47.0	105.0	12234.2	200.0	-57.2	99.9	279.9	25.1	24.8	-4.3	342.2	999.9	99.9	999.9	42.6	103.
50.2	111.8	13071.2	175.0	-60.8	99.9	285.5	25.1	24.2	-6.7	349.6	999.9	99.9	999.9	46.9	103.
53.6	119.0	14031.7	150.0	-60.6	99.9	293.9	24.5	22.4	-9.9	365.7	999.9	99.9	999.9	52.7	104.
57.5	125.0	15155.4	125.0	-63.9	99.9	292.9	18.1	16.9	-7.3	379.4	999.9	99.9	999.9	57.2	104.
62.4	132.3	16512.6	100.0	-66.9	99.9	304.2	10.0	9.2	-5.6	399.5	999.9	99.9	999.9	61.4	105.
68.9	140.0	18284.3	75.0	-65.2	99.9	221.4	3.4	2.3	2.6	436.2	999.9	99.9	999.9	62.3	106.
77.1	147.3	20756.6	50.0	-59.4	99.9	42.4	5.2	-3.5	-3.9	503.7	999.9	99.9	999.9	62.4	107.
89.9	155.0	25179.6	25.0	-51.3	99.9	109.6	4.3	-4.1	1.5	637.2	999.9	99.9	999.9	59.2	109.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 291
DEL RIO, TEXAS

27 MAY 1977
2300 GMT

160 0. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	0.0	314.0	970.0	27.4	21.0	130.0	6.7	-5.1	4.3	303.2	346.6	18.4	66.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	10.5	499.2	950.0	25.9	21.5	162.4	4.5	-1.4	4.3	303.5	349.6	17.2	76.4	0.5	224.
1.9	12.6	736.0	925.0	23.2	20.8	139.4	7.5	-4.9	5.7	303.1	348.5	17.0	86.3	0.9	323.
2.8	14.9	973.3	900.0	21.3	16.8	137.0	7.3	-5.0	5.4	303.4	339.9	13.5	72.7	1.3	322.
3.8	17.0	1210.9	875.0	24.4	9.6	86.6	3.9	-3.9	-0.4	309.1	333.4	8.6	39.0	1.6	319.
4.7	19.4	1447.9	850.0	25.0	-1.8	10.0	4.1	-0.7	-4.1	312.4	324.2	4.0	18.9	1.6	312.
5.9	21.5	1713.3	825.0	22.8	-4.8	374.3	4.2	1.8	-3.8	312.7	322.6	3.3	18.4	1.4	298.
6.9	24.0	1990.5	800.0	21.0	-8.2	309.6	3.8	2.9	-2.4	313.5	322.7	3.0	15.5	1.1	281.
8.0	26.2	2272.3	775.0	18.5	-1.9	274.3	3.9	3.9	-0.3	313.7	326.7	4.3	28.1	0.8	262.
9.0	28.7	2552.0	750.0	15.9	0.3	269.2	4.9	4.8	0.9	313.9	329.5	5.3	34.8	0.7	216.
10.2	31.4	2838.4	725.0	14.2	99.9	281.3	8.8	8.6	-1.7	315.0	999.9	99.9	999.9	0.5	10.
11.3	34.1	3132.9	700.0	11.1	1.0	282.5	8.8	8.6	-1.9	314.7	332.2	5.9	56.0	0.0	68.
12.4	36.6	3435.5	675.0	8.5	0.6	268.6	9.7	9.7	0.2	315.2	332.7	5.9	57.4	1.3	77.
13.6	39.3	3744.3	650.0	5.6	-0.7	264.0	12.0	12.0	1.3	315.3	331.9	5.6	63.6	2.1	80.
15.0	41.9	4056.7	625.0	4.1	-5.0	269.2	15.7	15.7	0.2	317.2	330.0	4.2	51.6	2.2	82.
16.3	44.9	4398.0	600.0	2.7	-12.2	280.3	18.9	18.5	-3.3	319.1	327.1	2.5	32.1	4.6	86.
17.5	47.9	4741.2	575.0	0.7	-21.2	285.9	18.1	17.4	-4.9	320.9	324.8	1.2	17.6	6.8	90.
18.8	50.7	5096.6	550.0	-2.0	-31.3	283.4	13.2	12.8	-3.1	321.8	323.6	0.5	8.7	7.2	93.
20.3	53.8	5466.3	525.0	-6.2	-42.7	277.2	8.7	8.7	-0.5	323.1	324.0	0.2	3.2	8.1	93.
21.8	56.9	5845.9	500.0	-5.8	-36.1	270.7	8.2	8.1	-1.4	324.8	326.0	0.3	7.8	8.8	93.
23.4	60.1	6245.0	475.0	-0.7	-36.0	288.4	8.0	7.6	-2.5	326.0	327.3	0.4	9.5	9.5	94.
25.3	63.7	6659.5	450.0	-13.2	-35.8	289.7	9.5	9.0	-3.2	326.5	328.1	0.4	12.6	10.4	96.
27.0	67.0	7091.7	425.0	-16.6	-42.9	288.3	12.4	11.9	-3.5	327.7	329.4	0.2	8.2	11.8	97.
28.7	70.6	7544.2	400.0	-20.5	-45.1	287.0	13.3	12.7	-3.9	328.4	329.8	0.2	6.8	12.8	98.
30.3	74.3	8017.9	375.0	-24.6	-40.5	287.8	14.9	14.2	-4.6	329.0	330.1	0.3	21.4	14.2	99.
32.2	78.4	8514.8	350.0	-28.4	-32.5	288.4	15.3	13.5	-5.1	330.5	333.0	0.7	67.3	15.9	100.
34.1	82.3	9042.8	325.0	-32.8	-37.4	292.2	17.4	15.1	-6.6	331.5	333.1	0.5	63.2	17.8	101.
36.0	86.5	9601.9	300.0	-37.3	-41.5	289.6	18.0	16.9	-6.0	332.9	334.0	0.3	64.3	19.9	102.
38.0	91.3	10195.7	275.0	-42.5	99.9	290.0	18.6	17.5	-6.4	333.6	999.9	99.9	999.9	22.0	103.
40.1	96.0	10831.1	250.0	-48.3	99.9	281.2	19.6	19.2	-3.8	334.3	999.9	99.9	999.9	24.4	103.
42.5	101.2	11516.2	225.0	-53.0	99.9	283.3	19.0	17.6	-6.1	337.3	999.9	99.9	999.9	27.1	103.
45.3	107.0	12260.1	200.0	-56.0	99.9	280.1	22.7	21.5	-7.4	344.1	999.9	99.9	999.9	30.4	103.
48.6	113.0	13111.5	175.0	-59.5	99.9	289.4	25.7	24.2	-8.5	351.7	999.9	99.9	999.9	34.2	104.
51.7	119.0	14063.8	150.0	-64.8	99.9	286.5	28.9	27.7	-8.2	354.4	999.9	99.9	999.9	40.4	105.
55.6	124.5	15147.3	125.0	-68.4	99.9	300.9	18.9	16.2	-9.7	371.2	999.9	99.9	999.9	46.2	105.
60.3	134.7	16495.8	100.0	-68.6	99.9	285.4	8.1	7.8	-2.2	395.2	999.9	99.9	999.9	49.3	107.
64.1	142.7	18229.0	75.0	-68.5	99.9	198.2	5.4	1.7	5.2	429.2	999.9	99.9	999.9	51.3	108.
75.1	151.7	20499.4	50.0	-61.6	99.9	64.5	5.5	-4.9	-2.4	498.4	999.9	99.9	999.9	50.1	107.
89.0	161.0	23117.0	25.0	-50.9	99.9	171.2	4.7	-0.7	4.7	638.5	999.9	99.9	999.9	46.7	100.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 255
MIDLAND, TEXAS

27 MAY 1977
2305 GMT

143 12. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.3	873.0	907.6	32.2	1.3	230.0	8.3	6.4	5.3	313.9	327.8	4.7	14.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	14.9	948.3	900.0	31.1	4.5	248.2	9.3	8.6	3.5	313.6	330.9	5.9	18.7	0.2	46.
0.9	17.0	1108.6	875.0	29.0	2.6	244.3	9.6	8.9	3.5	312.9	328.4	5.3	19.5	0.5	66.
1.5	19.3	1454.1	850.0	25.7	1.2	250.0	9.6	9.0	3.3	313.0	327.6	4.9	20.3	0.9	62.
2.4	21.4	1715.1	825.0	23.0	-0.3	254.8	9.9	9.5	2.6	312.9	326.4	4.5	21.2	1.4	67.
3.5	23.8	1981.5	800.0	20.1	-1.2	253.6	10.6	10.2	3.0	312.6	325.6	4.4	22.6	2.0	69.
4.5	26.0	2253.7	775.0	17.6	-2.7	258.0	11.7	11.5	2.4	312.7	324.8	4.0	24.9	2.7	71.
5.2	28.4	2532.6	750.0	15.0	-3.1	255.2	12.0	11.6	3.1	312.9	325.1	4.1	28.5	3.2	72.
6.0	30.9	2818.1	725.0	12.1	-4.0	250.4	12.3	11.6	4.1	312.7	324.4	3.9	32.2	3.7	72.
7.0	33.4	3110.7	700.0	9.5	-6.5	250.7	15.3	14.4	5.1	313.1	323.3	3.4	31.6	4.6	72.
8.1	35.9	3411.5	675.0	7.9	-8.9	255.7	14.8	14.4	3.7	314.4	323.3	2.9	25.3	5.6	72.
9.3	38.6	3721.5	650.0	6.2	-17.2	260.0	12.9	12.6	2.2	316.0	320.9	1.5	16.7	6.5	73.
10.4	41.0	4041.4	625.0	4.8	-19.4	263.3	12.0	11.9	1.4	318.0	322.2	1.3	15.2	7.4	74.
11.8	43.5	4372.8	600.0	2.5	-21.2	267.4	13.1	13.1	0.6	319.0	322.8	1.2	15.3	8.4	75.
13.0	46.6	4714.9	575.0	-0.4	-23.0	275.5	14.9	14.8	-1.4	319.5	323.0	1.0	16.1	9.4	77.
14.3	49.4	5068.7	550.0	-2.8	-25.3	282.5	17.2	16.9	-3.7	320.8	323.8	0.9	15.7	10.5	79.
15.4	52.3	5436.1	525.0	-4.5	-27.1	283.2	17.1	16.8	-3.9	323.0	325.7	0.8	15.1	11.6	82.
16.8	55.3	5817.6	500.0	-8.3	-21.2	283.6	15.7	15.3	-3.7	322.9	327.6	1.4	34.8	12.7	84.
17.9	58.3	6213.7	475.0	-11.3	-21.0	282.4	15.7	15.3	-3.4	324.0	329.0	1.5	44.4	13.8	85.
19.1	61.5	6626.0	450.0	-14.7	-25.0	278.5	13.9	13.8	-2.1	324.7	328.5	1.1	41.0	14.9	86.
20.5	64.9	7055.7	425.0	-18.4	-26.9	271.4	15.2	15.2	-0.4	325.4	328.8	1.0	47.0	16.1	87.
22.1	68.1	7505.4	400.0	-22.1	-27.7	271.4	18.8	18.8	-0.5	326.3	329.7	1.0	59.9	17.6	87.
23.7	71.4	7977.0	375.0	-25.3	-29.0	277.7	22.1	21.9	-3.0	329.1	331.3	0.9	71.4	19.6	88.
25.4	75.2	8474.5	350.0	-29.3	-32.2	283.4	20.7	20.1	-4.8	329.7	332.2	0.7	73.7	21.7	89.
27.0	79.2	8999.6	325.0	-33.7	-36.9	285.9	18.3	17.6	-5.0	330.3	332.0	0.5	72.3	23.5	91.
28.8	83.0	9555.0	300.0	-38.0	-42.9	280.7	19.4	19.1	-3.6	331.8	332.9	0.3	56.2	25.5	92.
30.8	87.0	10150.3	275.0	-42.3	99.9	274.0	21.1	21.1	-1.5	334.0	999.9	99.9	999.9	27.9	92.
32.8	91.4	10784.3	250.0	-48.2	99.9	272.2	21.9	21.9	-0.8	334.5	999.9	99.9	999.9	30.6	92.
35.0	96.2	11471.9	225.0	-53.9	99.9	271.1	23.6	23.6	-0.5	335.9	999.9	99.9	999.9	33.3	92.
37.2	101.2	12222.3	200.0	-56.7	99.9	278.0	25.0	24.8	-3.5	343.0	999.9	99.9	999.9	36.5	92.
39.8	106.5	13062.9	175.0	-59.8	99.9	278.8	24.4	24.6	-3.7	351.7	999.9	99.9	999.9	40.7	93.
43.0	112.9	14030.4	150.0	-63.5	99.9	281.8	27.8	27.3	-5.7	360.5	999.9	99.9	999.9	45.8	93.
46.4	119.7	15131.5	125.0	-67.2	99.9	283.7	29.1	28.7	-7.0	373.3	999.9	99.9	999.9	50.3	95.
50.6	129.7	16474.4	100.0	-66.1	99.9	276.7	9.6	9.5	-1.1	400.0	999.9	99.9	999.9	53.4	96.
56.5	135.1	18221.8	75.0	-65.5	99.9	316.4	3.9	2.4	-2.6	435.5	999.9	99.9	999.9	54.7	96.
64.4	147.3	20721.9	50.0	-58.1	99.9	59.1	5.0	-4.3	-2.6	506.2	999.9	99.9	999.9	54.0	97.
79.4	151.7	25153.4	25.0	-51.2	99.9	999.9	999.9	99.9	99.9	537.9	999.9	99.9	999.9	50.1	98.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 327
NASHVILLE, TENNESSEE

27 MAY 1977
2325 GMT

157 12. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG.	RH PCT	RANGE KM	AZ DG
0.0	7.5	180.0	987.6	27.5	17.9	130.0	3.2	-2.5	2.1	301.7	337.2	13.2	56.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.6	8.7	293.4	973.0	25.2	16.4	129.3	3.9	-3.0	2.5	300.5	333.0	12.1	58.1	0.2	314.
1.9	10.5	521.5	950.0	23.5	15.8	120.6	4.1	-3.5	2.1	301.1	333.2	12.0	61.6	0.5	316.
3.0	13.0	753.8	925.0	21.3	14.5	98.2	4.3	-4.3	0.6	301.1	331.5	11.3	65.2	0.9	304.
4.3	15.4	980.9	900.0	18.9	13.8	86.6	3.6	-3.6	-0.2	301.0	330.9	11.1	72.0	1.8	293.
5.5	17.5	1232.6	875.0	16.9	12.7	74.7	3.9	-3.8	-1.0	301.3	330.2	10.7	76.6	1.3	288.
6.9	20.1	1479.5	850.0	14.8	10.9	61.3	4.8	-4.2	-2.3	301.7	328.0	9.7	77.3	1.5	277.
8.1	22.7	1732.3	825.0	13.5	9.0	81.6	4.8	-4.8	-0.7	302.9	327.1	8.8	74.2	1.8	273.
9.2	24.4	1991.1	800.0	11.7	7.5	89.2	3.4	-3.4	-0.0	303.7	326.3	8.2	75.5	2.1	272.
10.3	27.1	2254.8	775.0	10.4	6.1	100.2	3.2	-3.2	0.6	305.0	326.3	7.7	74.6	2.3	273.
11.4	29.4	2529.2	750.0	8.0	4.6	89.7	3.7	-3.7	-0.0	305.2	325.2	7.1	76.3	2.6	273.
13.0	32.4	2809.9	725.0	6.5	2.2	89.1	3.8	-3.8	-0.1	306.6	324.3	6.2	73.7	2.9	272.
14.4	35.1	3096.3	700.0	4.6	0.3	99.5	3.0	-2.9	0.5	307.6	323.6	5.6	73.5	3.2	272.
15.6	37.7	3392.1	675.0	2.3	-1.6	126.7	3.0	-2.4	1.9	308.2	322.8	5.0	75.2	3.4	273.
16.9	40.4	3696.3	650.0	0.8	-11.1	134.9	4.0	-2.8	2.8	309.9	318.3	2.8	46.1	3.6	276.
18.6	43.1	4012.7	625.0	2.3	-23.9	117.9	5.4	-4.9	2.5	315.1	318.0	0.9	12.2	4.0	280.
20.2	46.1	4341.6	600.0	0.6	-24.2	100.0	6.0	-5.9	1.0	316.8	319.8	0.9	13.4	4.5	281.
21.7	49.1	4681.9	575.0	-1.5	-25.0	97.0	5.5	-5.5	-0.3	318.2	321.1	0.9	14.7	5.1	280.
23.3	52.0	5033.4	550.0	-4.6	-27.3	72.4	4.3	-4.1	-1.3	318.6	321.1	0.7	14.9	5.5	278.
25.0	55.2	5397.1	525.0	-8.3	-28.7	64.2	4.8	-4.3	-2.1	318.5	320.8	0.7	17.3	5.9	276.
26.5	58.3	5773.4	500.0	-11.6	-31.2	53.9	3.4	-2.7	-2.0	318.9	320.9	0.6	17.8	6.2	274.
28.5	61.6	6165.0	475.0	-13.1	-33.1	110.6	5.1	-4.7	1.8	321.8	323.5	0.5	16.8	6.5	273.
31.0	65.1	6575.5	450.0	-15.1	-35.6	122.8	6.5	-5.4	3.5	324.2	325.7	0.4	15.3	7.5	277.
33.2	68.6	7004.7	425.0	-18.7	-38.2	123.6	5.8	-4.9	3.2	325.0	326.2	0.3	15.7	8.2	280.
35.3	71.9	7457.5	400.0	-22.3	-41.1	111.0	5.3	-4.9	1.9	325.0	326.0	0.3	16.1	8.8	281.
37.9	75.9	7933.6	375.0	-26.6	-44.2	118.1	5.3	-4.7	2.5	326.4	327.2	0.2	16.9	9.6	282.
40.1	80.3	8436.9	350.0	-31.4	-46.8	126.8	3.4	-2.8	2.1	326.4	327.0	0.2	20.0	10.2	283.
42.5	83.4	8939.1	325.0	-35.3	-49.5	123.1	3.8	-3.2	2.1	328.0	328.5	0.1	21.8	10.6	284.
45.3	88.2	9449.7	300.0	-40.0	99.9	177.5	2.1	-0.1	2.1	329.0	999.9	99.9	999.9	11.0	286.
48.4	92.9	10078.6	275.0	-44.4	99.9	202.2	3.2	1.2	3.0	331.0	999.9	99.9	999.9	11.0	287.
51.3	97.5	10709.4	250.0	-49.8	99.9	205.7	3.9	1.7	3.5	332.0	999.9	99.9	999.9	10.9	291.
54.3	102.9	11389.1	225.0	-55.6	99.9	190.1	4.7	0.9	4.6	333.3	999.9	99.9	999.9	10.9	295.
57.9	109.5	12130.8	200.0	-60.4	99.9	209.7	5.4	2.7	4.7	337.1	999.9	99.9	999.9	11.3	300.
61.5	116.3	12952.8	175.0	-64.2	99.9	256.5	6.4	6.3	1.5	344.0	999.9	99.9	999.9	10.9	306.
65.5	120.8	13891.9	150.0	-64.0	99.9	347.4	4.8	1.0	-4.5	359.9	999.9	99.9	999.9	9.6	308.
70.7	123.0	15031.2	125.0	-59.8	99.9	301.3	4.2	3.5	-2.2	356.7	999.9	99.9	999.9	8.6	305.
76.2	135.7	16414.0	100.0	-64.7	99.9	302.6	3.2	2.7	-1.7	402.8	999.9	99.9	999.9	7.3	306.
82.3	142.9	18169.6	75.0	-63.4	99.9	340.2	7.5	2.6	-7.1	440.1	999.9	99.9	999.9	7.2	296.
92.9	153.7	20701.1	50.0	-58.1	99.9	71.5	4.5	-4.3	-1.4	506.7	999.9	99.9	999.9	9.7	278.
111.0	158.7	25142.4	25.0	-50.6	99.9	999.9	999.9	99.9	99.9	639.5	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 340
LITTLE ROCK, ARKANSAS

27 MAY 1977
2300 GMT

149 14. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.4	172.0	989.9	30.7	15.5	300.0	2.1	1.8	-1.0	304.8	335.8	11.3	40.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	9.5	297.1	975.0	28.4*	99.9	315.2	2.6	1.5	-1.9	303.8	999.9	99.9	999.9	0.1	133.
1.4	10.5	527.1	950.0	25.9	15.5	317.5	2.1	1.4	-1.6	303.5	335.4	11.8	82.7	0.2	136.
2.5	12.7	761.4	925.0	23.6	14.2	317.5	1.9	1.3	-1.4	303.5	332.7	11.1	85.7	0.3	137.
3.6	14.9	1000.7	900.0	21.6	13.7	320.5	2.3	1.5	-1.8	303.7	333.8	11.0	88.8	0.4	137.
4.7	16.9	1244.1	875.0	19.0	12.2	325.9	2.7	1.5	-2.2	303.5	331.7	10.3	84.7	0.6	136.
6.0	19.3	1497.8	850.0	16.7	10.9	325.9	3.1	1.7	-2.5	303.7	330.2	9.7	88.4	0.8	141.
7.1	21.4	1747.7	825.0	15.8	9.1	303.6	3.0	2.5	-1.6	305.3	329.9	8.9	84.4	1.0	141.
8.0	23.7	2008.1	800.0	13.5	7.0	299.4	2.6	2.4	-0.9	305.5	327.6	7.9	85.1	1.2	137.
9.2	25.9	2274.8	775.0	11.1	5.5	295.1	3.4	3.1	-1.4	305.8	326.5	7.4	88.4	1.3	134.
10.3	29.4	2549.1	750.0	9.2	5.3	303.5	5.0	4.2	-2.8	306.6	327.6	7.5	96.2	1.6	131.
11.5	31.0	2828.9	725.0	7.3	3.7	304.8	5.9	5.5	-4.1	307.4	327.0	6.9	98.0	2.0	130.
12.7	33.5	3117.6	700.0	5.5	1.8	300.9	8.6	7.4	-4.4	309.6	326.4	6.2	76.9	2.6	129.
13.9	35.0	3414.2	675.0	4.2	-2.6	307.4	8.9	7.2	-5.3	310.3	324.1	4.7	61.5	3.2	127.
15.2	38.7	3720.9	650.0	2.4	-4.9	310.2	9.9	7.6	-6.4	311.7	323.9	4.1	58.1	3.9	128.
16.4	41.2	4034.6	625.0	-0.0	-5.1	309.5	10.5	8.1	-6.7	312.4	324.9	4.2	66.8	4.7	128.
17.9	44.1	4362.1	600.0	-2.6	-10.8	309.8	8.7	6.7	-5.6	313.1	321.7	2.8	53.2	5.6	129.
19.3	47.0	4699.1	575.0	-4.0	-22.7	298.1	5.0	7.6	-2.5	315.3	318.8	1.1	21.6	6.1	128.
20.5	50.0	5049.5	550.0	-6.1	-26.2	287.4	9.7	9.7	0.4	316.9	319.6	0.8	18.5	6.8	124.
21.8	52.9	5411.2	525.0	-8.4	-28.8	284.8	9.4	8.1	2.2	318.3	320.6	0.7	17.4	7.3	120.
23.2	55.9	5788.6	500.0	-10.1	-29.0	285.7	6.2	3.9	1.7	320.7	322.1	0.7	19.4	7.7	117.
24.9	59.0	6181.9	475.0	-12.9	-23.3	327.8	2.4	1.8	1.6	322.0	326.1	1.2	41.0	7.8	116.
26.4	62.4	6592.1	450.0	-15.5	-30.2	230.0	2.4	1.8	1.5	323.7	326.1	0.7	27.2	7.9	114.
28.1	65.7	7021.4	425.0	-18.4	-34.5	220.6	2.7	2.1	1.8	325.5	327.1	0.5	22.6	8.0	113.
29.9	69.2	7470.7	400.0	-21.8	-39.2	229.2	4.2	3.2	2.7	326.6	327.8	0.3	19.0	8.2	110.
31.6	72.7	7943.3	375.0	-25.7	-34.5	217.9	5.6	3.4	4.4	327.6	329.5	0.5	43.2	8.4	107.
33.4	76.7	8437.7	350.0	-30.0	-32.9	210.2	7.0	3.5	6.1	329.3	330.5	0.6	68.0	8.6	103.
35.6	80.6	8962.4	325.0	-33.5	-42.3	205.0	8.2	3.5	7.4	330.5	331.6	0.3	40.5	9.0	96.
37.8	84.9	9519.4	300.0	-37.6	-46.2	206.5	9.3	3.7	7.4	332.4	333.2	0.2	39.7	9.3	90.
40.1	89.3	10117.9	275.0	-42.3	99.9	214.9	8.9	5.0	7.3	333.3	999.9	99.9	999.9	10.0	84.
42.5	94.0	10749.0	250.0	-48.5	99.9	217.7	8.7	5.1	6.5	334.0	999.9	99.9	999.9	10.9	79.
45.1	99.0	11433.9	225.0	-54.1	99.9	205.5	7.1	3.1	6.4	335.6	999.9	99.9	999.9	11.7	75.
48.1	104.3	12186.1	200.0	-57.5	99.9	222.4	4.1	2.9	3.0	341.7	999.9	99.9	999.9	12.5	72.
51.2	110.2	13021.1	175.0	-60.6	99.9	204.9	5.8	3.1	6.1	349.9	999.9	99.9	999.9	12.8	70.
54.4	114.3	13978.7	150.0	-62.0	99.9	285.7	13.3	12.8	-3.6	363.3	999.9	99.9	999.9	15.8	72.
58.4	123.0	15112.6	125.0	-61.4	99.9	317.1	7.8	5.3	-5.7	383.9	999.9	99.9	999.9	16.2	76.
63.2	130.3	16495.3	100.0	-61.7	99.9	321.7	4.5	2.8	-3.5	408.5	999.9	99.9	999.9	17.5	83.
69.5	137.9	18263.2	75.0	-63.9	99.9	4.5	3.9	-0.3	-3.9	439.0	999.9	99.9	999.9	18.1	87.
77.5	144.9	20794.1	50.0	-66.4	99.9	75.8	4.6	-4.5	-1.1	510.8	999.9	99.9	999.9	16.6	91.
91.1	152.0	25244.9	25.0	-68.5	99.9	37.3	1.9	-1.2	-1.5	645.3	999.9	99.9	999.9	13.6	91.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 346
MONETT, MISSOURI

27 MAY 1977
2302 GMT

ISI 14. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	10.1	498.0	964.0	28.3	15.6	190.0	2.6	0.5	2.6	305.2	337.2	11.7	46.6	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.0	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
0.9	10.7	512.5	950.0	27.0	15.0	196.1	2.8	0.9	2.7	304.8	335.8	11.4	47.8	0.1	19.
1.8	12.9	747.7	925.0	24.9	14.3	194.9	3.3	0.9	3.2	304.7	335.3	11.2	52.0	0.3	21.
2.8	14.2	887.5	900.0	22.4	13.5	201.7	3.9	1.4	3.6	304.6	334.5	10.9	57.2	0.5	26.
3.8	17.5	1231.9	875.0	19.9	12.1	193.2	4.1	0.9	4.0	304.5	332.5	10.2	60.6	0.8	20.
4.9	19.9	1481.2	850.0	17.6	11.6	188.4	3.4	0.4	3.4	304.6	333.0	10.4	65.3	1.0	18.
5.8	22.2	1734.8	825.0	15.2	11.4	181.2	3.6	0.1	3.6	304.7	333.1	10.3	78.0	1.2	15.
6.7	24.9	1994.3	800.0	12.5	10.2	191.3	4.2	0.9	4.1	304.5	331.8	9.9	85.7	1.5	13.
7.8	27.1	2242.8	775.0	11.1	7.0	217.2	5.3	3.2	4.2	305.8	328.5	8.1	78.5	1.8	14.
8.8	29.7	2516.7	750.0	10.4	1.4	265.2	7.0	7.0	0.6	307.9	324.1	5.7	53.9	2.1	23.
10.2	32.3	2813.3	725.0	8.4	0.1	280.7	8.3	8.1	-1.5	308.6	324.1	5.4	56.1	2.3	26.
11.4	35.1	3107.4	700.0	6.3	-2.2	275.9	10.0	9.9	-1.0	309.4	323.1	4.7	54.6	2.7	69.
12.4	37.6	3405.0	675.0	4.0	-1.6	277.4	10.9	10.8	-1.4	310.2	324.9	5.1	67.1	3.1	58.
13.5	40.8	3711.0	650.0	1.4	-2.2	284.6	11.0	10.7	-2.6	310.5	325.2	5.0	76.9	3.7	68.
14.7	43.0	4025.6	625.0	-1.3	-5.1	290.5	11.4	10.6	-4.0	311.0	323.4	4.2	75.3	4.3	72.
16.0	46.0	4349.8	600.0	-3.5	-7.0	287.0	11.0	10.5	-3.2	312.1	323.4	3.8	76.7	5.0	76.
17.5	49.0	4685.5	575.0	-4.9	-21.7	266.2	9.7	9.7	0.6	314.3	318.1	1.2	25.4	5.9	82.
19.1	51.9	5034.8	550.0	-6.6	-17.0	236.9	9.3	7.9	5.1	316.3	322.1	1.8	43.2	6.8	80.
20.5	55.0	5396.5	525.0	-8.2	-42.5	223.9	10.4	7.2	7.5	318.6	319.2	0.2	4.3	7.5	77.
22.0	58.9	5773.5	500.0	-10.5	-45.8	218.2	9.7	6.0	7.6	320.3	320.8	0.1	3.9	8.2	73.
23.3	61.3	6166.4	475.0	-13.8	-29.7	223.9	10.8	7.0	7.2	321.9	324.4	0.7	24.3	8.9	78.
24.9	64.7	6574.0	450.0	-16.1	-24.8	235.0	9.7	8.0	5.6	323.0	327.1	1.2	50.5	9.7	68.
26.4	69.8	7003.4	425.0	-19.6	-30.5	240.0	10.5	9.1	5.3	323.8	326.2	0.7	37.8	10.7	66.
28.1	71.4	7450.3	400.0	-22.3	-47.4	217.9	11.3	7.0	8.9	324.7	325.2	0.1	8.8	11.7	66.
29.9	75.2	7920.0	375.0	-25.1	-46.9	197.7	10.8	3.3	10.3	327.1	327.7	0.1	12.1	12.7	63.
31.9	79.2	8414.4	350.0	-29.4	-40.3	191.1	12.1	2.8	11.9	329.1	330.3	0.3	22.6	13.8	58.
33.9	83.0	8940.5	325.0	-34.0	-41.3	193.4	14.9	3.5	14.5	329.9	331.0	0.3	47.1	14.7	54.
35.8	87.0	9496.9	300.0	-37.8	-47.3	189.0	14.8	2.3	14.6	332.0	332.7	0.2	35.8	16.8	50.
38.0	91.5	10090.6	275.0	-42.8	99.9	196.4	15.8	4.5	15.1	333.3	999.9	99.9	999.9	17.6	46.
40.3	96.2	10726.9	250.0	-47.7	99.9	195.4	14.7	4.0	14.2	335.2	999.9	99.9	999.9	19.5	43.
43.0	101.8	11414.0	225.0	-52.6	99.9	208.7	13.4	6.4	11.8	337.9	999.9	99.9	999.9	21.6	40.
45.6	106.9	12167.1	200.0	-56.8	99.9	198.1	10.7	3.3	10.1	342.8	999.9	99.9	999.9	23.6	48.
49.6	112.3	13005.7	175.0	-59.0	99.9	216.9	12.9	7.7	10.4	352.6	999.9	99.9	999.9	25.1	38.
51.9	118.5	13965.7	150.0	-58.5	99.9	278.4	12.5	12.4	-1.8	367.6	999.9	99.9	999.9	27.4	41.
55.9	125.5	15111.2	125.0	-58.3	99.9	278.1	7.9	7.8	-1.1	389.4	999.9	99.9	999.9	28.8	48.
60.7	133.8	16501.6	100.0	-61.8	99.9	297.8	4.8	4.3	-2.3	488.9	999.9	99.9	999.9	28.8	48.
66.8	140.5	18277.1	75.0	-63.5	99.9	193.2	2.5	0.6	2.4	439.7	999.9	99.9	999.9	29.3	45.
74.8	148.7	20814.4	50.0	-56.8	99.9	79.0	4.8	-3.9	-0.8	589.8	999.9	99.9	999.9	27.9	49.
88.1	156.7	25291.3	25.0	-49.6	99.9	93.0	5.8	-5.8	0.3	842.4	999.9	99.9	999.9	24.3	43.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 353
OKLAHOMA CITY, OKLAHOMA

27 MAY 1977
2300 GMT

154 16. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR .DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	0.4	392.0	960.7	26.1	20.0	160.0	6.2	-2.1	5.8	302.7	344.2	15.5	69.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	10.7	491.2	950.0	25.8	20.2	167.9	7.5	-1.6	7.4	303.3	345.9	15.9	71.2	0.4	346.
1.7	12.5	726.0	925.0	23.5	19.0	171.7	8.4	-1.2	8.3	303.4	344.0	15.2	75.9	0.7	347.
2.2	14.9	945.4	900.0	21.4	18.8	183.9	9.1	0.6	9.1	303.6	344.9	15.4	85.0	1.2	351.
3.1	17.0	1209.0	875.0	18.3	16.9	195.4	9.2	2.4	8.9	302.8	340.5	14.0	91.8	1.7	356.
4.1	19.5	1457.7	850.0	16.3	15.2	207.2	9.9	4.5	9.9	303.2	338.1	12.9	93.4	2.2	3.
5.1	21.7	1712.0	825.0	14.5	13.9	217.7	12.0	7.3	9.5	304.0	337.2	12.2	95.8	2.8	9.
6.4	24.1	1972.1	800.0	12.9	11.6	227.2	12.9	9.5	8.9	304.5	334.1	10.8	94.3	3.6	16.
7.8	26.5	2238.9	775.0	11.3	9.4	218.1	12.7	7.8	10.0	306.0	332.6	9.6	87.9	4.4	23.
8.5	29.1	2519.0	750.0	10.8	7.9	207.3	9.7	4.5	8.6	308.3	327.6	6.8	82.1	5.1	25.
9.6	31.7	2795.5	725.0	9.2	-0.7	206.8	9.1	4.1	8.1	309.6	324.2	5.0	45.7	5.6	24.
10.9	34.4	3085.5	700.0	7.0	-3.6	223.4	10.5	7.2	7.7	310.3	322.6	4.2	46.7	6.3	25.
12.1	35.9	3381.4	675.0	4.9	-4.6	234.7	11.8	9.7	6.8	311.1	322.1	4.0	50.2	7.1	26.
13.4	39.5	3682.6	650.0	2.0	-10.1	234.9	13.1	10.7	7.5	311.3	319.6	2.7	40.1	7.9	32.
14.7	42.4	4001.0	625.0	-0.1	-16.9	237.2	14.8	12.5	9.0	312.3	317.5	1.6	27.1	9.0	34.
15.7	45.7	4330.9	600.0	-1.4	-22.1	246.1	16.9	15.5	6.8	314.6	318.1	1.1	18.8	9.9	37.
17.0	4 .3	4667.9	575.0	-4.7	-23.6	257.1	16.7	16.3	3.7	314.4	317.7	1.0	21.2	10.9	41.
18.4	51.1	5016.0	550.0	-6.8	-25.7	256.9	17.6	17.1	4.0	315.1	318.9	0.9	20.4	12.1	45.
19.8	54.4	5378.3	525.0	-8.5	-28.3	256.6	17.8	17.3	4.1	315.2	320.6	0.7	18.3	13.5	48.
21.4	57.4	5755.6	500.0	-10.4	-30.8	269.3	17.2	17.2	0.2	320.4	322.4	0.6	16.8	14.8	52.
23.1	60.7	6149.7	475.0	-13.4	-31.4	279.5	19.4	18.3	-0.8	321.4	323.4	0.6	20.3	16.1	56.
24.8	64.2	6559.9	450.0	-17.0	-32.9	275.9	20.3	19.9	-2.1	321.9	323.7	0.5	23.6	17.6	59.
26.3	67.6	6984.4	425.0	-19.4	-35.8	280.2	23.8	23.4	-4.2	324.1	325.6	0.4	21.6	19.3	64.
27.9	71.0	7432.0	400.0	-22.8	-38.4	281.0	25.4	24.9	-4.9	325.4	326.7	0.3	22.4	21.3	67.
29.7	75.0	7900.6	375.0	-27.5	-42.4	282.3	24.7	24.2	-5.2	325.2	326.0	0.2	22.6	23.7	71.
31.4	79.0	8391.2	350.0	-31.4	-46.0	283.7	22.2	20.9	-7.5	326.1	326.7	0.2	22.4	25.8	74.
33.5	82.8	8912.8	325.0	-35.9	-50.0	283.7	25.2	23.1	-10.1	327.2	327.6	0.1	21.7	28.0	78.
35.4	87.0	9462.6	300.0	-40.8	99.9	284.7	31.1	28.2	-13.0	327.9	999.9	99.9	999.9	30.8	81.
37.5	91.7	10049.5	275.0	-44.9	99.9	283.9	35.7	33.6	-12.1	330.2	999.9	99.9	999.9	34.3	85.
39.8	96.4	10679.8	250.0	-49.4	99.9	287.5	33.3	31.7	-10.0	332.7	999.9	99.9	999.9	38.9	88.
42.1	101.4	11354.8	225.0	-53.5	99.9	277.3	25.9	25.7	-3.3	335.5	999.9	99.9	999.9	42.8	89.
44.4	107.0	12117.2	200.0	-55.0	99.9	272.4	28.7	28.7	-1.2	343.7	999.9	99.9	999.9	46.5	90.
47.2	112.8	12969.4	175.0	-58.0	99.9	275.5	25.6	25.5	-2.4	354.2	999.9	99.9	999.9	51.0	90.
50.1	119.3	13928.0	150.0	-60.2	99.9	281.6	20.9	20.5	-4.2	366.3	999.9	99.9	999.9	55.0	91.
53.7	126.3	15057.7	125.0	-63.1	99.9	292.0	13.1	12.1	-5.1	380.9	999.9	99.9	999.9	58.6	92.
58.1	134.3	16430.0	100.0	-64.0	99.9	302.5	5.4	4.5	-2.9	402.3	999.9	99.9	999.9	60.3	92.
63.8	142.3	18186.9	75.0	-63.5	99.9	47.4	4.2	-3.1	-2.9	439.8	999.9	99.9	999.9	61.1	93.
71.9	150.3	20716.0	50.0	-58.2	99.9	351.1	5.9	0.9	-5.8	506.5	999.9	99.9	999.9	59.8	94.
84.9	159.0	25142.4	25.0	-49.6	99.9	119.8	3.5	-3.0	1.7	641.9	999.9	99.9	999.9	55.0	95.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 13 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 363
AMARILLO, TEXAS

27 MAY 1977
2300 GMT

153 28. 8

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	17.2	1094.0	882.0	28.3	5.2	230.0	6.3	4.8	4.0	312.4	330.7	6.3	23.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	900.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	18.1	1177.7	875.0	28.2	2.0	231.9	12.4	9.4	7.7	313.1	328.1	5.1	18.4	0.3	33.
1.1	20.6	1428.6	850.0	24.9	-2.3	232.0	10.2	8.0	6.3	312.3	323.7	3.8	16.3	0.7	52.
2.1	23.3	1699.6	825.0	22.1	-3.6	230.4	10.6	6.8	5.9	312.0	322.6	3.6	17.6	1.3	53.
3.1	25.9	1974.1	800.0	19.3	-4.4	241.6	10.4	9.2	5.0	311.9	322.2	3.5	19.7	1.9	55.
4.1	28.7	2255.6	775.0	16.8	-4.5	241.3	10.1	8.9	4.9	311.9	322.5	3.5	22.8	2.5	57.
5.2	31.4	2543.0	750.0	13.9	-5.4	235.9	10.2	8.4	5.7	311.7	321.9	3.4	25.7	3.2	57.
6.3	34.5	2797.9	725.0	11.2	-5.7	234.4	7.4	6.2	4.1	311.7	322.1	3.5	30.2	3.8	57.
7.6	37.3	3079.8	700.0	8.3	-6.0	250.4	7.2	6.9	2.4	311.7	322.2	3.5	35.8	4.3	57.
8.7	40.3	3377.8	675.0	5.5	-7.0	252.1	8.6	8.4	1.2	311.5	321.9	3.4	40.1	4.8	60.
10.0	43.3	3694.9	650.0	2.6	-7.4	261.1	10.8	10.6	1.7	311.9	322.0	3.4	47.9	5.4	63.
11.0	46.3	4001.0	625.0	0.7	-15.5	255.5	13.4	13.1	3.1	313.3	319.0	1.9	28.4	6.1	64.
11.9	49.5	4328.5	600.0	-0.1	-23.4	258.1	15.4	15.1	3.2	316.0	319.2	1.0	15.2	7.0	66.
12.9	52.6	4648.1	575.0	-1.7	-27.8	259.2	15.2	15.2	0.5	318.1	320.3	0.7	11.4	7.7	67.
14.0	55.8	5070.2	550.0	-3.6	-29.5	274.2	18.7	18.6	-2.0	319.8	321.8	0.6	11.3	8.8	71.
15.6	59.1	5396.0	525.0	-5.4	-30.7	274.7	21.9	21.9	-1.6	322.0	323.9	0.6	11.5	10.6	75.
17.3	62.7	5747.0	500.0	-7.7	-32.8	273.3	23.4	23.4	-1.4	323.7	325.4	0.5	11.2	12.6	79.
19.7	66.2	6144.3	475.0	-11.2	-18.3	274.8	23.9	23.9	-2.0	324.1	330.3	1.9	55.3	14.9	81.
20.0	70.0	6574.8	450.0	-15.0	-22.0	273.9	24.1	24.0	-1.5	324.3	329.2	1.4	55.0	16.7	82.
21.3	73.7	7036.8	425.0	-18.1	-25.0	270.1	22.4	22.4	-0.0	325.8	329.7	1.2	54.3	18.5	83.
22.7	77.7	7456.7	400.0	-21.9	-28.7	273.6	21.7	21.7	-0.2	326.6	329.8	0.9	53.6	20.2	84.
24.3	81.7	7924.1	375.0	-25.9	-32.5	279.5	25.0	24.7	-4.1	327.4	329.8	0.7	53.4	22.4	85.
25.9	85.7	8433.5	350.0	-30.0	-36.4	283.2	27.1	26.4	-6.2	328.4	330.1	0.5	52.9	24.9	87.
27.9	90.2	8946.3	325.0	-34.5	-40.8	293.1	28.0	27.3	-6.3	329.1	330.3	0.3	52.6	27.9	88.
29.7	95.0	9499.7	300.0	-39.6	-45.7	294.4	29.1	28.2	-7.3	329.5	330.3	0.2	51.9	31.1	90.
31.9	99.4	10088.4	275.0	-44.7	99.9	294.6	31.7	30.2	-7.9	330.4	999.9	99.9	999.9	34.5	92.
34.0	104.9	10719.0	250.0	-49.9	99.9	282.7	34.2	33.5	-7.5	332.0	999.9	99.9	999.9	38.8	93.
35.3	110.2	11390.7	225.0	-55.3	99.9	283.2	35.3	34.4	-8.1	333.9	999.9	99.9	999.9	43.8	94.
39.0	114.0	12148.2	200.0	-57.2	99.9	282.6	34.0	33.2	-7.4	342.1	999.9	99.9	999.9	49.8	95.
42.0	127.3	12907.4	175.0	-56.9	99.9	279.7	29.1	28.8	-4.4	356.0	999.9	99.9	999.9	55.0	96.
45.4	123.3	13966.7	150.0	-55.9	99.9	284.9	21.9	21.9	0.6	368.7	999.9	99.9	999.9	60.1	96.
49.2	134.5	15099.1	125.0	-63.1	99.9	265.9	19.5	19.4	1.4	390.8	999.9	99.9	999.9	64.8	95.
54.3	143.7	16477.8	100.0	-62.7	99.9	284.9	9.4	9.0	-2.7	408.6	999.9	99.9	999.9	68.5	95.
60.0	151.3	18216.1	75.0	-63.9	99.9	200.0	4.9	1.7	4.6	439.0	999.9	99.9	999.9	70.0	95.
69.5	160.0	20744.4	50.0	-57.2	99.9	47.9	4.7	-3.5	-3.1	508.6	999.9	99.9	999.9	70.0	95.
82.0	169.0	25787.9	25.0	-50.9	99.9	999.9	99.9	99.9	99.9	538.4	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 433
SALEM, ILLINOIS

27 MAY 1977
2300 GMT

135 59. 0

TIME MIN	CNFCT	WEIGHT GPW	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.1	175.0	987.6	30.0	19.7	140.0	1.6	-1.0	1.2	304.2	331.8	18.1	37.0	0.0	0.
99.9	99.9	99.0	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	7.1	289.6	975.0	28.5	12.2	153.9	2.5	-1.1	2.3	303.8	329.2	9.2	28.7	0.1	347.
1.2	9.0	419.5	950.0	26.4	11.7	159.2	3.2	-1.1	3.0	304.1	329.3	9.1	35.5	0.2	343.
2.0	10.9	758.2	925.0	24.3	11.6	161.9	3.6	-1.1	3.4	304.1	329.6	9.2	44.5	0.4	342.
2.9	12.8	997.1	900.0	22.0	10.7	164.0	3.8	-1.1	3.7	304.2	329.2	9.1	48.7	0.6	342.
3.7	14.8	1237.0	875.0	19.8	10.3	167.4	4.1	-1.8	2.8	304.4	329.4	9.1	54.2	0.8	342.
4.7	15.7	1496.7	850.0	17.8	9.8	135.5	3.4	-2.7	2.7	304.8	329.6	9.0	55.5	0.9	338.
5.1	18.8	1740.4	825.0	16.8	8.5	149.2	3.9	-2.0	3.2	304.2	328.4	8.7	67.9	1.1	335.
6.0	20.9	2000.5	800.0	12.2	8.7	176.3	6.0	-0.3	4.0	304.2	328.8	8.5	76.1	1.3	335.
7.2	23.0	2245.3	775.0	9.8	7.6	210.5	5.7	3.9	4.9	304.2	327.7	8.5	87.1	1.5	344.
8.2	25.2	2519.6	750.0	9.4	-2.5	224.8	5.7	3.9	4.1	304.8	321.2	5.0	51.3	1.8	355.
9.5	27.4	2815.4	725.0	9.4	-20.8	217.3	3.2	1.9	2.5	309.8	313.0	1.0	5.8	2.0	3.
10.5	29.7	3109.1	700.0	7.4	-22.1	177.2	2.4	-2.1	2.6	310.7	313.6	0.9	10.0	2.1	4.
11.9	32.9	3407.1	675.0	5.9	-23.1	147.2	3.5	0.4	3.5	312.7	315.2	0.5	10.2	2.4	3.
12.8	36.5	3716.9	650.0	4.4	-24.1	135.0	4.7	1.2	4.1	313.9	316.7	0.5	10.4	2.6	4.
14.0	37.0	4033.6	625.0	2.9	-24.9	128.3	4.3	-0.1	4.3	314.5	317.2	0.7	10.1	2.9	5.
15.1	39.5	4350.9	600.0	-0.3	-23.9	155.1	5.2	-2.1	4.7	315.7	318.8	0.9	14.8	3.2	3.
16.3	42.0	4669.1	575.0	-2.8	-24.5	134.7	5.8	-4.1	4.1	316.9	319.8	0.9	16.7	3.5	355.
17.5	44.5	5049.0	550.0	-5.0	-27.5	139.1	5.9	-4.5	3.8	318.2	320.6	0.7	15.0	3.9	354.
19.0	47.7	5414.0	525.0	-7.4	-31.3	141.5	4.9	-3.0	3.9	319.5	321.4	0.5	12.7	4.2	350.
20.3	50.5	5792.0	500.0	-10.2	-31.7	163.9	5.2	-1.4	5.0	320.6	322.4	0..	15.2	4.5	348.
21.7	53.4	6185.0	475.0	-13.1	-32.9	174.6	6.5	-0.6	6.5	321.8	323.6	0.5	17.2	5.0	349.
23.2	56.4	6586.9	450.0	-15.8	-32.0	168.7	7.1	-1.4	7.0	323.4	325.5	0.6	24.7	5.6	345.
24.7	59.4	7009.3	425.0	-18.8	-32.0	180.0	6.7	1.3	6.7	324.9	327.0	0.6	29.0	6.3	350.
26.9	63.0	7472.0	400.0	-22.1	-28.2	191.7	6.9	1.4	6.7	326.3	329.5	0.9	37.2	6.9	351.
27.7	66.3	7961.1	375.0	-26.1	-34.2	183.4	7.5	3.4	7.5	327.1	329.0	0.6	46.2	7.4	353.
29.6	70.0	8477.6	350.0	-30.3	-33.7	169.2	8.2	-1.5	8.1	327.2	329.4	0.6	75.8	8.3	353.
31.4	73.7	8959.9	325.0	-34.8	-38.0	170.8	8.4	-1.3	8.3	328.7	330.3	0.4	72.0	9.2	352.
33.5	77.8	9514.0	300.0	-39.0	-49.2	182.5	9.0	0.4	9.0	330.4	330.9	0.1	32.6	10.0	353.
35.8	81.9	10134.0	275.0	-44.3	99.9	191.6	10.0	2.4	9.8	331.1	999.9	99.9	999.9	11.7	355.
38.2	86.3	10774.1	250.0	-49.6	99.9	189.5	11.0	1.8	10.9	332.4	999.9	99.9	999.9	13.1	357.
40.8	91.2	11417.9	225.0	-54.9	99.9	194.2	12.4	3.2	12.4	334.6	999.9	99.9	999.9	14.9	358.
43.2	96.4	12141.5	200.0	-60.7	99.9	218.4	10.9	6.8	8.5	336.4	999.9	99.9	999.9	16.6	1.
46.1	102.0	12998.7	175.3	-63.9	99.9	299.2	4.1	3.6	-1.9	344.5	999.9	99.9	999.9	17.4	4.
49.8	108.5	13939.2	150.0	-56.9	99.9	155.7	3.4	-1.4	3.2	347.2	999.9	99.9	999.9	17.0	9.
53.3	115.5	15082.1	125.0	-59.4	99.9	302.7	3.9	1.3	-2.1	397.5	999.9	99.9	999.9	16.7	8.
58.3	123.0	16446.1	100.0	-63.0	99.9	324.9	3.9	3.2	-3.1	404.3	999.9	99.9	999.9	15.4	11.
64.1	131.7	18246.9	75.0	-59.5	99.9	999.9	999.9	99.9	99.9	448.7	999.9	99.9	999.9	15.0	9.
99.9	99.9	99.9	50.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 451
DODGE CITY, KANSAS

27 MAY '977
2315 GMT

146 10. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	12.5	791.0	914.0	27.2	13.9	200.0	4.2	1.4	3.9	308.0	338.5	11.0	44.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	973.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	949.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	13.9	945.4	903.0	22.7	12.4	215.3	3.9	2.2	3.2	305.0	332.7	10.1	51.9	0.2	41.
1.1	15.9	1190.4	875.0	21.4	12.8	202.9	4.4	1.7	4.0	306.0	335.4	10.7	58.0	0.3	38.
1.9	18.7	1440.8	850.0	18.5	11.7	189.6	4.6	0.8	4.6	305.5	333.8	10.3	64.9	0.5	29.
2.7	20.5	1686.1	825.0	16.0	10.9	190.1	4.7	0.8	4.7	305.5	333.2	10.0	71.9	0.8	21.
3.5	22.8	1937.1	800.0	13.6	10.1	194.9	4.5	1.3	4.3	305.7	332.6	9.9	79.1	1.0	20.
4.3	25.2	2226.1	775.0	11.3	10.1	214.0	5.5	3.1	4.6	306.0	333.8	10.1	92.2	1.2	20.
5.3	27.5	2497.5	750.0	9.4	-1.7	232.9	8.7	7.0	5.3	306.7	320.0	4.6	46.6	1.6	28.
6.5	30.0	2777.5	725.0	7.6	-9.8	238.9	12.2	10.5	6.3	307.8	315.3	2.9	27.8	2.3	37.
7.6	32.6	3065.2	700.0	4.9	-11.2	249.1	12.7	11.3	5.7	307.9	314.9	2.3	30.2	3.1	43.
8.5	35.2	3360.0	675.0	2.0	-12.0	248.7	12.8	11.9	4.7	307.9	314.7	2.1	34.5	3.8	48.
9.9	37.7	3663.5	650.0	-0.0	-15.1	253.9	14.5	14.0	4.0	308.3	314.5	1.9	31.0	4.7	53.
11.1	40.4	3974.5	625.0	-2.1	-20.0	259.7	17.2	16.2	5.7	310.1	314.0	1.2	22.7	5.8	57.
12.2	43.0	4293.9	600.0	-3.5	-23.4	266.0	18.3	16.7	7.5	312.1	315.2	1.0	19.6	7.0	59.
13.6	46.0	4624.3	575.0	-4.4	-25.7	268.1	17.6	15.9	7.4	312.5	315.2	0.8	19.8	8.4	60.
14.8	49.0	4981.2	550.0	-7.5	-29.5	260.2	20.1	17.4	10.0	314.8	316.8	0.6	15.5	9.6	60.
16.2	51.9	5343.1	525.0	-9.0	-31.6	263.0	16.0	14.3	7.3	318.8	320.6	0.5	12.9	11.4	60.
17.9	54.9	5719.7	500.0	-11.1	-33.4	258.1	14.5	14.2	3.0	319.5	321.1	0.4	13.7	12.9	61.
19.5	57.9	6110.7	475.0	-14.9	-35.6	277.7	17.5	17.5	-0.8	319.5	321.0	0.4	15.0	14.2	64.
21.0	61.3	6517.2	450.0	-18.4	-36.9	275.4	25.0	24.9	-2.4	320.1	321.4	0.4	17.9	15.8	67.
22.8	64.7	6931.4	425.0	-21.7	-36.6	271.7	29.1	29.1	-0.9	321.2	322.6	0.4	24.3	18.4	71.
24.5	68.0	7358.3	400.0	-25.5	-39.2	268.6	29.0	29.0	0.7	321.9	323.0	0.3	26.2	21.2	74.
26.2	71.5	7799.5	375.0	-29.1	-43.0	261.5	31.1	30.7	4.6	323.1	323.9	0.2	24.5	24.3	75.
28.1	75.3	8258.1	350.0	-33.2	-46.5	260.5	30.0	29.6	4.9	323.9	324.5	0.2	24.7	27.7	76.
29.7	79.3	8753.6	325.0	-37.9	99.9	269.5	32.1	32.1	0.2	324.4	999.9	99.9	999.9	30.8	77.
31.5	83.3	9309.5	300.0	-42.1	99.9	270.2	36.5	36.0	-5.8	325.1	999.9	99.9	999.9	34.0	78.
33.9	87.5	9883.2	275.0	-47.0	99.9	281.5	43.0	42.1	-8.7	327.2	999.9	99.9	999.9	39.4	82.
35.1	92.2	10495.9	250.0	-49.8	99.9	281.2	39.9	39.1	-7.7	332.0	999.9	99.9	999.9	44.8	84.
38.5	96.9	11208.6	225.0	-51.3	99.9	270.6	34.4	34.4	-0.3	340.0	999.9	99.9	999.9	50.0	86.
41.1	102.0	12059.6	200.0	-51.7	99.9	270.2	21.0	21.0	-0.1	351.0	999.9	99.9	999.9	54.7	86.
44.4	107.9	12918.8	175.0	-54.6	99.9	254.0	16.7	16.0	4.6	360.1	999.9	99.9	999.9	57.6	86.
48.0	114.7	13903.1	150.0	-56.7	99.9	261.6	24.8	24.5	3.6	372.5	999.9	99.9	999.9	62.2	85.
52.0	120.3	15050.7	125.0	-61.3	99.9	285.3	13.4	12.9	-3.5	384.1	999.9	99.9	999.9	66.8	85.
55.8	127.7	16429.9	100.0	-63.4	99.9	247.7	3.5	3.2	1.3	405.1	999.9	99.9	999.9	68.2	86.
62.6	135.7	18201.4	75.0	-62.2	99.9	169.3	4.3	-0.8	4.2	442.6	999.9	99.9	999.9	69.6	85.
70.4	143.3	20229.9	50.0	-58.5	99.9	44.8	5.7	4.0	-4.1	505.7	999.9	99.9	999.9	68.1	85.
82.8	152.0	25142.8	25.0	-51.4	99.9	90.8	6.7	-6.7	0.1	637.0	999.9	99.9	999.9	63.0	86.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 456
TOPEKA, KANSAS

27 MAY 1977
2300 GMT

150 15. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	8.5	269.0	975.5	26.1	14.6	200.0	5.2	1.8	4.9	301.4	334.5	12.3	54.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.0	8.6	272.8	975.0	25.9	16.4	209.0	5.1	2.5	4.4	301.2	333.8	12.1	65.7	0.1	25.
1.1	10.8	500.4	950.0	23.6	14.9	243.5	4.3	3.8	1.9	301.1	331.6	11.3	58.4	0.5	157.
2.1	13.0	732.8	925.0	21.5	14.0	227.1	4.9	3.4	3.3	301.3	331.0	11.0	62.5	0.5	124.
3.1	15.1	949.8	900.0	19.2	13.4	217.9	4.7	2.9	3.7	301.3	330.5	10.8	69.1	0.6	95.
4.0	17.5	1211.4	875.0	17.0	13.1	212.7	4.9	2.6	4.1	301.5	330.9	10.9	77.5	0.8	79.
4.9	19.9	1458.5	850.0	14.4	12.3	222.4	5.0	3.0	4.4	301.3	329.9	10.6	87.1	1.0	67.
5.8	22.1	1710.4	825.0	12.0	11.0	233.1	7.1	5.7	4.3	301.3	328.6	10.1	93.4	1.4	63.
6.5	24.5	1949.6	800.0	10.4	9.4	236.5	8.1	6.8	4.5	302.2	327.7	9.9	92.9	1.7	61.
7.5	26.8	2231.2	775.0	9.5	8.7	239.3	10.9	9.4	5.5	304.0	329.3	9.2	94.4	2.2	60.
8.4	29.1	2504.7	750.0	7.1	6.1	242.4	12.8	11.3	5.9	304.7	326.3	7.9	93.2	3.0	61.
9.7	31.9	2783.1	725.0	5.4	-5.1	242.0	12.5	11.0	5.9	305.9	316.7	3.7	46.5	3.9	61.
10.8	34.5	3070.4	700.0	5.4	-19.6	246.0	11.0	10.0	4.5	309.5	312.1	1.2	14.4	4.6	61.
12.2	36.9	3364.2	675.0	3.2	-19.6	247.1	11.9	10.9	4.6	309.2	313.0	1.2	16.8	5.5	62.
13.4	39.7	3670.7	650.0	0.0	-22.8	244.7	12.3	11.1	5.3	309.0	312.1	1.0	16.3	6.4	63.
14.8	42.2	3983.2	625.0	-1.8	-50.5	243.4	11.4	10.2	5.1	310.4	310.6	0.1	1.1	7.4	63.
16.0	45.0	4304.9	600.0	-3.0	-51.6	244.3	12.0	10.8	5.2	312.7	312.9	0.1	1.0	8.2	63.
17.2	47.8	4642.7	575.0	-5.3	-53.2	250.4	12.3	11.6	4.1	313.8	314.0	0.0	1.0	9.1	63.
18.6	50.5	4989.9	550.0	-8.6	-55.3	255.5	13.2	12.8	3.3	313.9	314.1	0.0	1.0	10.2	65.
20.1	53.5	5349.0	525.0	-10.7	-56.7	246.1	13.1	12.0	5.3	315.5	315.7	0.0	1.0	11.4	65.
21.6	56.4	5721.9	500.0	-12.4	-57.9	234.6	13.3	11.1	7.3	317.6	317.7	0.0	1.0	12.8	65.
23.0	59.5	6111.2	475.0	-14.8	-59.3	235.0	12.5	10.2	7.2	319.7	319.8	0.0	1.0	13.6	64.
24.6	62.6	6518.1	450.0	-17.6	-61.1	245.5	12.4	11.3	5.1	321.1	321.2	0.0	1.0	14.7	64.
26.3	65.8	6943.6	425.0	-20.7	-63.1	254.7	13.3	12.8	3.6	322.5	322.6	0.0	1.0	16.1	65.
28.1	69.1	7388.1	400.0	-24.8	-62.5	237.0	13.6	11.4	7.4	322.8	322.9	0.0	2.9	17.5	65.
29.9	72.4	7854.4	375.0	-28.3	-36.0	209.7	14.9	7.4	13.0	324.2	325.8	0.5	47.0	18.9	63.
31.8	75.2	8345.4	350.0	-32.0	-35.4	191.4	18.0	3.6	17.6	325.6	327.5	0.5	71.0	20.2	59.
33.9	80.0	8864.1	325.0	-35.5	-42.0	181.5	21.3	3.6	21.3	327.7	328.8	0.3	51.3	21.5	55.
35.7	83.9	9417.1	300.0	-39.5	-45.1	177.9	24.8	-0.9	24.8	329.7	330.5	0.2	55.1	23.4	45.
37.9	87.8	10006.7	275.0	-43.7	99.9	174.1	23.8	-2.5	23.7	332.0	999.9	99.9	999.9	25.4	43.
40.2	92.4	10630.9	250.0	-48.0	99.9	169.7	24.0	-4.3	23.6	333.3	999.9	99.9	999.9	27.6	38.
43.0	97.0	11292.5	225.0	-53.6	99.9	171.3	21.7	-3.3	21.4	336.4	999.9	99.9	999.9	30.3	32.
45.6	101.9	12074.8	200.0	-57.0	99.9	177.5	19.8	-0.8	19.8	342.6	999.9	99.9	999.9	32.8	29.
48.8	107.5	12915.7	175.0	-58.5	99.9	209.3	14.9	7.3	13.0	351.9	999.9	99.9	999.9	35.7	27.
52.3	113.5	13880.5	150.0	-59.1	99.9	255.2	13.5	13.1	3.5	366.2	999.9	99.9	999.9	38.1	29.
56.3	120.3	15024.1	125.0	-59.5	99.9	259.9	7.8	7.7	1.4	387.1	999.9	99.9	999.9	39.9	32.
61.5	129.0	16419.2	100.0	-61.3	99.9	265.2	3.2	3.1	-0.8	409.3	999.9	99.9	999.9	40.7	34.
67.3	136.7	18188.3	75.0	-63.6	99.9	175.1	2.5	-0.2	2.5	433.5	999.9	99.9	999.9	40.6	34.
75.9	145.0	20719.1	50.0	-56.9	99.9	86.0	5.7	5.5	-0.4	509.4	999.9	99.9	999.9	39.2	33.
89.0	153.7	24147.7	25.0	-51.2	99.9	83.7	6.3	-6.2	-0.7	637.8	999.9	99.9	999.9	36.2	26.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 532
PEORIA, ILLINOIS

27 MAY 1977
2300 GMT

158 13. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	6.9	200.0	995.0	30.0	9.0	150.0	4.2	-2.1	3.6	304.5	324.9	7.3	27.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	7.5	291.3	975.0	30.3	6.5	999.9	99.9	99.9	99.9	305.6	323.4	6.3	22.5	999.9	999.
1.3	9.5	521.5	950.0	26.8	3.0	999.9	999.9	99.9	99.9	304.4	318.7	5.0	21.6	999.9	999.
2.5	11.2	755.7	925.0	24.9	3.7	999.9	999.9	99.9	99.9	304.7	320.1	5.4	25.3	999.9	999.
3.6	13.2	994.7	900.0	22.5	3.6	999.9	999.9	99.9	99.9	304.7	320.4	5.5	28.9	999.9	999.
4.5	15.1	1238.7	875.0	20.6	3.2	999.9	999.9	99.9	99.9	305.2	320.9	5.5	31.7	999.9	999.
5.7	16.9	1487.8	850.0	17.8	1.7	999.9	999.9	99.9	99.9	304.8	319.4	5.1	33.8	999.9	999.
6.9	19.0	1742.1	825.0	15.2	3.7	999.9	999.9	99.9	99.9	304.7	321.9	6.1	46.0	999.9	999.
7.9	20.9	2002.1	800.0	13.0	3.2	999.9	999.9	99.9	99.9	305.0	322.1	6.1	51.9	999.9	999.
9.0	23.0	2267.6	775.0	10.2	0.4	999.9	999.9	99.9	99.9	304.8	319.4	5.1	50.6	999.9	999.
10.1	25.2	2539.7	750.0	8.4	-10.5	999.9	999.9	99.9	99.9	305.8	312.9	2.4	26.1	999.9	999.
11.1	27.3	2819.5	725.0	8.5	-25.4	999.9	999.9	99.9	99.9	308.8	311.0	0.7	7.0	999.9	999.
12.2	29.5	3109.5	700.0	6.9	-21.4	999.9	999.9	99.9	99.9	310.2	313.3	1.0	11.1	999.9	999.
13.5	31.9	3406.8	675.0	5.6	-18.0	999.9	999.9	99.9	99.9	311.9	316.3	1.4	16.4	999.9	999.
14.7	34.3	3713.5	650.0	3.9	-26.0	999.9	999.9	99.9	99.9	313.4	315.7	0.7	9.0	999.9	999.
15.8	36.6	4030.6	625.0	1.4	-30.2	999.9	999.9	99.9	99.9	314.3	315.9	0.5	7.2	999.9	999.
17.0	39.1	4357.4	600.0	-1.0	-31.2	999.9	999.9	99.9	99.9	315.0	316.6	0.5	6.0	999.9	999.
18.3	41.4	4695.9	575.0	-2.9	-24.4	182.9	9.6	0.5	9.6	316.7	319.7	0.9	17.0	8.0	344.
19.6	44.1	5046.1	550.0	-5.4	-26.8	167.7	10.0	-2.1	9.8	317.4	320.0	0.8	16.9	8.7	345.
20.9	46.9	5409.0	525.0	-8.2	-28.8	159.8	9.6	-3.3	9.0	318.6	320.8	0.7	17.1	9.5	345.
22.3	49.7	5786.3	500.0	-10.5	-33.7	171.4	9.0	-1.1	7.9	320.2	321.8	0.4	12.8	10.3	345.
23.8	52.4	6179.0	475.0	-13.4	-35.6	182.5	7.4	0.3	7.4	321.4	322.8	0.4	13.3	10.9	345.
25.3	55.7	6588.0	450.0	-16.7	-33.1	181.1	7.7	0.2	7.7	322.3	324.1	0.5	22.7	11.6	346.
25.9	54.3	7014.8	425.0	-19.7	-30.4	185.1	5.9	0.5	5.9	323.7	326.3	0.8	40.9	12.2	347.
29.6	61.5	7462.9	400.0	-22.9	-26.0	191.2	7.4	1.4	7.3	325.3	329.2	1.1	74.8	12.8	348.
30.3	64.9	7933.0	375.0	-26.2	-34.0	185.9	10.7	1.1	10.7	327.0	329.0	0.5	47.4	13.6	350.
32.1	68.1	8429.6	350.0	-30.0	-41.8	189.5	12.7	2.2	12.6	328.4	329.4	0.3	30.3	14.9	351.
34.0	71.6	8951.5	325.0	-34.7	-45.7	196.9	13.3	3.9	12.7	328.8	329.5	0.2	31.5	16.2	353.
36.0	75.5	9504.6	300.0	-39.7	99.9	194.6	14.0	3.5	13.5	329.5	999.9	99.9	999.9	17.7	355.
38.2	79.5	10093.9	275.0	-44.4	99.9	194.1	15.3	3.7	14.8	331.0	999.9	99.9	999.9	19.5	357.
40.4	83.7	10725.9	250.0	-48.9	99.9	197.2	12.7	3.7	12.1	333.3	999.9	99.9	999.9	21.4	359.
42.9	88.2	11409.5	225.0	-54.7	99.9	195.5	8.4	2.3	8.1	334.7	999.9	99.9	999.9	22.8	360.
45.6	93.2	12157.3	200.0	-59.5	99.9	207.7	6.6	3.0	5.8	338.6	999.9	99.9	999.9	24.0	1.
49.4	98.5	12980.9	175.0	-62.9	99.9	279.7	3.9	3.9	-0.4	346.2	999.9	99.9	999.9	24.6	2.
52.0	104.5	13898.6	150.0	-60.1	99.9	339.5	3.2	1.2	-3.0	366.6	999.9	99.9	999.9	24.2	2.
56.2	111.3	15082.4	125.0	-58.8	99.9	297.1	3.7	3.4	-1.5	388.5	999.9	99.9	999.9	23.7	4.
61.1	119.9	16474.0	100.0	-60.9	99.9	323.1	4.3	2.6	-3.5	410.1	999.9	99.9	999.9	23.8	6.
67.4	129.5	18259.2	75.0	-62.4	99.9	72.4	5.6	-5.4	-1.7	442.1	999.9	99.9	999.9	22.8	3.
76.8	142.0	20813.8	50.0	-55.9	99.9	74.6	6.1	-5.9	-1.6	511.7	999.9	99.9	999.9	21.5	357.
89.9	156.0	25287.1	25.0	-52.6	99.9	999.9	999.9	99.9	99.9	633.6	999.9	99.9	999.9	21.3	343.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 553
OMAHA, NEBRASKA

27 MAY 1977
2300 GMT

156 14. 6

TIME MIN.	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.6	409.0	959.3	22.1	15.5	180.0	4.2	0.0	4.2	298.9	329.7	11.6	66.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	999.9	999.9	999.9	999.
99.9	99.9	99.9	973.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	999.9	999.9	999.9	999.
0.1	10.4	444.5	950.0	21.1	99.9	336.7	2.5	1.0	-2.3	298.6	999.9	99.9	999.9	0.4	1.
0.5	12.5	714.9	925.0	19.2	14.5	273.8	2.1	2.1	-0.1	299.9	329.1	11.3	74.2	0.4	4.
1.5	14.8	950.7	900.0	17.1	14.6	213.5	5.6	3.1	4.7	299.1	330.3	11.7	85.0	0.8	12.
2.7	16.9	1190.3	875.0	15.7	11.1	216.8	7.7	4.6	6.2	300.1	325.9	9.6	74.4	0.8	21.
3.3	19.3	1474.4	850.0	14.3	9.7	216.0	7.2	4.3	5.9	301.2	325.5	8.9	72.6	1.3	27.
4.7	21.5	1699.0	825.0	14.5	6.8	196.4	4.7	1.3	4.5	303.9	325.0	7.6	60.8	1.6	28.
5.3	24.0	1949.4	800.0	12.6	4.5	190.1	3.2	0.6	3.2	304.6	323.2	6.6	58.0	1.9	26.
5.1	26.3	2214.2	775.0	11.0	1.8	198.9	2.4	0.8	2.2	305.6	321.7	5.7	53.2	2.0	25.
7.1	28.9	2487.1	750.0	9.5	-2.2	240.4	4.7	4.1	2.3	306.8	319.5	4.4	44.0	2.1	27.
8.2	31.5	2747.6	725.0	7.7	-3.7	247.9	7.4	6.8	2.8	307.4	319.1	4.0	45.7	2.4	32.
9.2	34.1	3005.2	700.0	4.7	-1.4	244.5	9.2	8.3	4.0	307.7	322.0	5.0	64.9	2.9	38.
10.3	36.7	3350.9	675.0	2.2	-1.0	240.9	10.3	9.0	5.0	308.1	323.3	5.3	79.1	3.5	43.
11.5	39.4	3454.8	650.0	-0.2	-3.0	238.8	9.7	8.3	5.0	308.8	322.6	4.7	81.3	4.2	46.
12.6	42.1	3968.1	625.0	-1.9	-10.2	229.3	9.3	8.0	4.7	310.3	318.9	2.8	53.0	4.8	47.
13.9	45.0	4291.7	600.0	-4.1	-16.6	226.4	11.2	9.3	6.2	311.4	316.8	1.7	36.9	5.5	49.
15.0	47.9	4627.1	575.0	-4.7	-28.2	230.7	12.9	9.9	9.1	314.5	316.7	0.7	14.0	6.3	50.
16.4	50.9	4974.9	550.0	-7.4	-29.6	225.1	13.3	9.4	9.4	315.4	317.4	0.6	14.9	7.5	49.
17.7	54.0	5334.9	525.0	-10.4	-27.3	221.7	13.7	9.1	10.2	316.0	318.6	0.8	23.3	8.5	49.
19.0	57.0	5709.0	500.0	-12.8	-19.1	206.5	12.8	5.7	11.4	317.5	323.3	1.9	64.1	9.4	47.
20.4	60.3	6099.8	475.0	-14.2	-20.4	192.3	15.7	3.3	15.3	320.4	325.6	1.6	56.4	10.5	44.
21.9	63.6	6505.7	450.0	-16.6	-23.9	187.3	19.1	2.4	19.0	322.4	326.5	1.2	52.9	11.8	40.
23.3	67.1	6935.7	425.0	-19.9	-27.0	182.0	20.7	0.7	20.7	323.5	326.8	1.0	53.0	13.2	35.
24.9	70.8	7382.6	400.0	-23.5	-25.2	173.9	21.6	-2.3	21.5	324.5	328.6	1.2	66.1	14.9	31.
26.5	74.5	7850.9	375.0	-27.3	-32.4	171.6	23.8	-3.5	23.5	325.5	327.8	0.7	61.7	16.7	26.
28.2	78.5	8345.3	350.0	-29.7	-44.5	170.6	24.7	-4.0	24.4	326.9	329.5	0.2	21.6	18.8	22.
29.9	82.5	8868.9	325.0	-33.7	-42.8	167.9	26.5	-5.6	25.9	330.3	331.2	0.3	39.1	21.0	18.
31.7	86.7	9425.5	300.0	-38.1	-45.0	162.4	26.9	-8.1	25.6	331.6	332.5	0.2	48.0	23.5	14.
33.8	91.4	10017.9	275.0	-43.0	99.9	160.8	27.1	-8.9	25.6	333.0	999.9	99.9	999.9	26.5	10.
34.0	95.2	10453.0	250.0	-48.3	99.9	161.1	27.0	-8.7	25.5	334.3	999.9	99.9	999.9	29.5	7.
39.1	101.2	11339.8	225.0	-52.9	99.9	163.3	27.6	-7.9	26.4	337.4	999.9	99.9	999.9	32.8	4.
41.0	107.0	12089.2	200.0	-57.8	99.9	165.1	24.8	-6.4	24.0	341.2	999.9	99.9	999.9	37.2	2.
43.8	112.9	12831.6	175.0	-58.9	99.9	190.0	18.7	3.2	18.4	352.8	999.9	99.9	999.9	41.0	1.
47.1	119.7	13701.1	150.0	-58.5	99.9	219.4	9.9	6.3	7.6	369.4	999.9	99.9	999.9	43.1	2.
50.9	125.7	15055.5	125.0	-58.0	99.9	223.9	6.6	4.6	4.8	390.0	999.9	99.9	999.9	44.6	4.
55.4	134.7	16454.9	100.0	-58.4	99.9	216.5	3.4	2.0	2.8	414.8	999.9	99.9	999.9	45.6	5.
61.5	142.7	18249.9	75.0	-60.7	99.9	268.6	3.4	3.4	0.1	445.7	999.9	99.9	999.9	45.5	4.
69.4	151.3	20305.2	50.0	-61.5	99.9	303.7	6.4	5.3	-3.5	510.5	999.9	99.9	999.9	45.1	4.
81.0	160.0	25250.2	25.0	-51.1	99.9	92.7	6.0	-6.0	0.3	637.7	999.9	99.9	999.9	44.8	357.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
• BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 562
NORTH PLATTE, NEBRASKA

27 MAY 1977
2300 GMT

150 14. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.1	847.0	904.6	23.9	7.5	330.0	1.5	0.8	-1.3	305.3	325.5	7.2	38.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	14.9	930.1	900.0	27.3	5.7	221.8	2.0	1.4	1.4	305.6	323.7	6.4	32.0	0.0	145.
1.4	17.0	1174.5	875.0	20.9	4.6	242.5	0.7	0.6	-0.1	305.4	322.6	6.1	34.6	0.1	112.
2.3	19.3	1424.1	850.0	18.4	3.9	238.7	0.6	0.5	0.3	305.4	322.3	6.0	36.1	0.1	103.
3.3	21.5	1678.9	825.0	15.8	2.7	209.4	1.1	0.5	0.9	305.3	321.3	5.5	41.4	0.1	95.
4.1	24.0	1939.9	800.0	13.0	1.5	231.0	2.4	1.9	1.5	305.1	320.3	5.3	46.4	0.2	85.
4.9	26.2	2205.1	775.0	10.9	0.9	240.3	3.5	3.1	1.8	305.4	320.6	5.3	50.5	0.3	82.
5.7	28.7	2477.5	750.0	9.1	-0.3	252.2	4.8	4.6	1.5	305.4	319.7	5.0	55.5	0.5	83.
6.6	31.3	2756.4	725.0	5.6	-4.1	264.6	6.8	6.8	0.6	305.7	317.1	3.9	45.8	0.2	85.
7.7	33.9	3043.7	700.0	1.5	-9.5	267.5	9.0	9.0	0.4	306.3	314.3	2.7	37.8	1.4	77.
8.7	36.3	3336.1	675.0	1.7	-11.4	265.1	9.1	9.1	0.9	307.1	314.2	2.4	28.7	1.6	80.
9.9	39.0	3639.0	650.0	-1.4	-12.7	257.3	9.9	9.7	2.2	307.4	314.0	2.2	41.7	2.5	80.
11.9	41.6	3949.0	625.0	-4.1	-12.5	250.7	11.4	10.8	3.8	307.8	314.9	2.3	51.9	3.3	78.
12.3	44.4	4270.0	600.0	-6.9	-13.6	255.0	10.6	10.3	2.8	309.5	313.7	1.4	32.6	4.2	77.
13.6	47.3	4602.3	575.0	-7.3	-24.2	262.1	9.9	8.8	1.2	310.4	313.8	0.9	25.4	4.9	77.
14.7	50.3	4946.2	550.0	-10.3	-27.6	262.3	9.6	9.5	1.3	311.8	314.2	0.7	22.5	5.5	78.
15.9	53.1	5302.8	525.0	-12.9	-29.6	268.7	10.0	9.3	3.6	312.9	315.0	0.6	23.0	6.2	78.
17.1	56.0	5677.0	500.0	-15.6	-31.9	273.2	10.0	7.6	6.6	314.0	315.8	0.5	23.1	6.9	76.
18.3	59.1	6057.9	475.0	-18.8	-33.8	275.2	8.4	6.0	5.0	314.7	316.3	0.5	25.0	7.5	73.
19.7	62.4	6457.6	450.0	-22.4	-36.7	285.9	8.2	7.4	3.3	315.1	316.4	0.4	25.7	8.1	71.
21.3	65.7	6875.4	425.0	-24.4	-40.8	270.5	13.0	13.0	-0.1	317.7	318.6	0.2	20.0	9.0	73.
23.1	69.1	7315.1	400.0	-27.7	-35.5	267.7	16.9	16.9	0.7	319.0	320.0	0.4	45.2	10.5	76.
24.6	72.5	7776.2	375.0	-31.4	-36.2	255.9	19.5	18.9	4.8	320.1	322.0	0.6	76.1	12.3	76.
24.3	76.3	8261.1	350.0	-35.0	-39.1	250.4	20.2	19.0	6.7	321.5	322.8	0.4	66.2	14.2	76.
28.3	80.3	8772.0	325.0	-39.4	-43.3	252.1	19.4	18.3	6.0	321.9	999.9	99.9	999.9	16.6	75.
30.3	84.2	9314.9	300.0	-44.1	-99.9	244.1	17.9	16.1	7.8	322.9	999.9	99.9	999.9	19.9	75.
32.4	88.3	9892.1	275.0	-49.4	-99.9	233.0	17.1	13.8	10.4	325.2	999.9	99.9	999.9	21.0	73.
34.8	93.3	10513.6	250.0	-48.7	-99.9	237.8	14.8	11.9	8.8	331.7	999.9	99.9	999.9	23.2	71.
37.1	97.4	11211.8	225.0	-49.7	-99.9	225.1	12.7	9.0	9.0	342.4	999.9	99.9	999.9	24.9	69.
39.9	102.8	11992.0	200.0	-48.1	-99.9	225.9	15.5	11.0	10.9	355.0	999.9	99.9	999.9	26.9	67.
43.3	108.5	12865.5	175.0	-50.9	-99.0	241.5	15.1	13.3	7.2	365.8	999.9	99.9	999.9	30.1	66.
47.0	114.7	13859.7	150.0	-51.9	-99.9	252.6	13.5	12.9	4.0	380.7	999.9	99.9	999.9	33.2	66.
51.4	121.7	15025.4	125.0	-56.9	-99.9	276.6	9.0	7.5	5.0	392.0	999.9	99.9	999.9	36.2	66.
56.3	129.7	16425.4	101.0	-59.7	-99.9	220.7	7.0	5.4	4.4	412.4	999.9	99.9	999.9	38.4	65.
62.4	139.3	18229.0	75.0	-61.3	-99.9	180.3	3.4	0.3	4.4	444.5	999.9	99.9	999.9	39.9	65.
70.7	147.7	20774.4	50.0	-55.0	-99.9	87.9	5.1	-5.1	-0.2	514.0	999.9	99.9	999.9	39.0	63.
83.5	157.7	25274.0	25.0	-52.7	-99.9	83.3	7.3	-7.2	-0.8	633.5	999.9	99.9	999.9	33.7	60.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 654
HURON, SOUTH DAKOTA

27 MAY 1977
2300 GMT

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TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	0.6	392.0	954.3	20.6	17.8	180.0	5.2	0.0	5.2	297.4	332.9	13.5	84.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	10.2	447.4	950.0	19.5	15.8	175.2	13.2	-1.1	13.2	297.0	330.7	12.8	84.3	0.2	353.
0.9	12.4	494.0	925.0	17.5	15.1	176.5	12.8	-0.8	12.8	297.2	328.3	11.8	86.1	0.6	354.
1.7	14.6	930.9	900.0	15.5	14.0	177.6	13.7	-0.6	13.7	297.5	327.2	11.2	90.8	1.2	356.
2.4	16.9	1149.9	875.0	13.7	12.0	183.1	12.4	0.7	12.4	298.1	325.3	10.2	86.5	1.8	357.
3.3	19.2	1414.5	850.0	12.8	10.2	187.5	10.3	1.3	10.2	299.5	324.8	9.4	85.3	2.4	359.
4.1	21.7	1445.4	825.0	11.8	7.1	188.4	10.2	1.5	10.1	301.1	322.2	7.7	72.8	2.8	1.
4.9	23.9	1922.4	800.0	9.7	4.9	191.0	12.1	2.3	11.9	301.6	320.4	6.9	71.7	3.4	2.
5.5	25.1	2186.1	775.0	8.7	3.2	194.1	11.1	2.7	10.8	303.1	320.6	6.3	68.7	3.9	4.
6.5	29.6	2457.0	750.0	7.0	1.9	195.2	9.6	2.5	9.3	304.2	320.7	5.9	69.8	4.4	5.
7.4	31.2	2735.1	725.0	5.1	1.3	201.2	10.0	3.6	9.3	305.0	321.6	5.8	76.9	4.9	6.
8.3	33.9	3020.8	700.0	2.7	0.9	209.6	10.0	4.9	8.7	305.5	322.1	5.9	88.2	5.4	8.
9.1	36.3	3314.5	675.0	0.6	-2.3	216.9	9.6	5.8	7.7	306.4	320.2	4.8	80.6	5.9	10.
10.2	39.1	3616.7	650.0	-1.4	-4.1	214.6	10.0	5.7	8.2	307.4	320.1	4.4	81.5	6.6	13.
11.2	41.7	3929.7	625.0	-3.5	-5.1	209.1	10.2	4.8	9.0	308.4	320.7	4.2	88.7	7.0	14.
12.2	44.6	4250.6	600.0	-5.7	-6.9	205.4	9.3	4.0	8.4	309.6	320.9	3.8	91.3	7.6	15.
13.2	47.4	4581.6	575.0	-7.6	-9.0	207.9	10.2	4.8	9.0	311.1	321.3	3.4	86.5	8.1	16.
14.1	50.4	4923.6	550.0	-9.9	-11.2	210.4	10.8	5.5	9.3	312.4	321.3	2.9	89.4	8.8	17.
15.1	53.3	5276.6	525.0	-11.4	-13.1	199.6	9.0	2.9	8.5	314.7	322.9	2.7	87.5	9.3	18.
16.2	56.1	5639.7	500.0	-13.2	-14.8	176.1	12.0	-0.5	11.9	317.0	324.5	2.4	87.2	10.0	17.
17.2	59.3	6013.2	475.0	-15.6	-17.0	165.3	16.0	-4.1	15.5	319.7	325.4	2.1	88.6	10.7	15.
18.3	62.5	6396.4	450.0	-17.2	-19.3	165.4	22.2	-5.6	21.5	321.6	328.0	2.0	91.1	11.8	12.
19.4	65.8	6793.1	425.0	-19.9	-21.9	167.0	25.7	-5.9	25.5	323.5	328.6	1.6	82.9	12.3	9.
20.7	69.1	7199.6	400.0	-22.7	-25.0	164.8	29.0	-7.6	28.0	325.6	329.7	1.2	80.8	13.2	6.
22.0	72.6	7620.9	375.0	-26.6	-28.9	161.4	29.8	-9.3	28.3	326.4	329.5	0.9	80.9	14.4	3.
23.2	76.3	8055.5	350.0	-30.4	-32.1	156.6	30.8	-12.3	28.3	327.9	330.4	0.7	84.3	15.5	0.
24.6	80.3	8510.5	325.0	-34.5	-37.8	155.5	34.2	-14.2	31.1	329.2	330.8	0.4	71.3	21.9	357.
25.9	84.0	9372.8	300.0	-38.7	99.9	156.6	35.1	-13.9	32.2	330.8	999.9	99.9	999.9	24.5	355.
27.4	88.2	9864.0	275.0	-44.0	99.9	156.0	35.5	-14.4	32.4	331.5	999.9	99.9	999.9	27.6	353.
29.1	92.7	10397.3	250.0	-48.7	99.9	154.9	39.0	-16.5	35.3	333.7	999.9	99.9	999.9	31.1	351.
31.1	97.4	11781.6	225.0	-54.2	99.9	157.5	38.9	-14.9	36.0	335.5	999.9	99.9	999.9	35.6	349.
33.1	102.2	12026.4	200.0	-57.9	99.9	162.4	32.5	-9.8	31.0	341.2	999.9	99.9	999.9	40.1	348.
35.4	108.0	12472.2	175.0	-57.8	99.9	177.9	21.2	-0.8	21.2	354.5	999.9	99.9	999.9	43.7	348.
37.8	113.8	13951.1	150.0	-56.5	99.9	193.7	13.0	3.1	12.6	372.7	999.9	99.9	999.9	45.9	349.
40.5	120.5	15012.0	125.0	-57.0	99.9	190.7	7.4	1.4	7.3	391.8	999.9	99.9	999.9	47.4	350.
44.6	128.0	16422.4	100.0	-56.4	99.9	170.4	5.3	-0.9	5.2	418.7	999.9	99.9	999.9	49.0	350.
49.3	136.3	18219.9	75.0	-60.9	99.9	138.0	3.8	-2.6	2.8	445.2	999.9	99.9	999.9	49.6	350.
55.9	144.3	20779.3	50.0	-55.8	99.9	95.0	4.8	-4.8	0.4	512.1	999.9	99.9	999.9	50.4	349.
66.1	152.7	25239.1	25.0	-51.6	99.9	999.9	99.9	99.9	99.9	636.8	999.9	99.9	999.9	999.9	999.

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STATION NO. 662
RAPID CITY, SOUTH DAKOTA

27 MAY 1977
2309 GMT

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TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	PK PTD GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.2	966.0	893.0	23.9	8.3	30.0	6.7	-3.3	-5.8	306.8	328.6	7.8	37.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	900.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	16.6	1147.5	875.0	22.2	5.4	35.9	3.7	-2.2	-3.0	306.9	325.2	6.4	33.5	0.3	227.
1.1	18.9	1204.1	850.0	19.9	4.5	47.7	4.1	-3.0	-2.7	306.9	324.7	6.3	36.5	0.6	225.
2.0	21.0	1260.8	825.0	16.8	3.8	61.0	4.4	-3.8	-2.1	306.4	323.8	6.1	41.9	0.7	228.
2.9	23.4	1317.2	800.0	14.4	2.3	89.1	2.2	-2.2	-0.0	306.5	322.7	5.7	43.9	0.9	233.
3.7	25.7	2178.5	775.0	12.3	0.7	171.3	1.3	-0.2	1.3	307.0	322.0	5.2	45.0	0.9	238.
4.6	28.1	2451.9	750.0	9.5	-0.7	210.8	2.4	1.3	2.1	306.9	320.8	4.8	48.8	0.9	239.
5.4	30.6	2731.9	725.0	6.9*	99.9	213.1	3.9	2.1	3.3	307.0	999.9	99.9	999.9	0.8	247.
6.9	33.1	3018.3	700.0	4.2*	99.9	220.1	5.3	3.4	4.1	307.1	999.9	99.9	999.9	0.6	274.
9.2	35.6	3312.3	675.0	1.2*	99.9	238.7	9.9	8.4	5.1	307.0	999.9	99.9	999.9	0.4	357.
9.6	38.2	3614.4	650.0	-1.7	-9.0	254.1	12.7	12.2	3.5	307.1	315.9	3.0	57.1	1.2	84.
10.9	40.9	3925.1	625.0	-4.3	-9.3	247.5	11.5	10.6	4.4	307.5	316.5	3.0	68.3	2.1	61.
12.2	43.6	4245.4	600.0	-7.3	-10.0	245.4	11.3	10.3	4.7	307.7	316.5	3.0	80.8	3.0	63.
13.4	46.2	4575.7	575.0	-9.9	-15.0	246.2	12.1	11.0	4.9	308.5	314.9	2.1	65.9	3.9	63.
15.0	49.1	4917.9	550.0	-11.4	-25.2	245.6	11.2	10.2	4.6	310.6	313.5	0.9	30.8	4.9	64.
15.2	51.9	5274.5	525.0	-11.9	-30.9	245.7	10.4	9.5	4.3	314.1	316.0	0.5	18.7	5.8	64.
17.6	55.0	5645.2	500.0	-15.6	-33.5	243.1	11.0	9.8	5.0	314.1	315.6	0.4	19.7	6.6	64.
18.7	58.0	6029.9	475.0	-18.7	-36.0	239.1	9.2	7.9	4.7	314.8	316.1	0.4	19.6	7.3	64.
20.0	61.3	6429.9	450.0	-22.5	-38.3	242.0	6.0	5.3	2.8	314.9	316.0	0.3	22.0	7.9	64.
21.4	64.7	6846.7	425.0	-26.7	-41.2	247.9	6.3	5.8	2.4	315.5	316.3	0.2	22.6	8.3	64.
23.0	68.0	7281.6	400.0	-30.2	-43.7	249.0	8.5	7.9	3.0	315.8	316.5	0.2	25.1	9.0	64.
24.5	71.4	7737.4	375.0	-34.2	-46.4	239.6	10.1	8.7	5.1	316.4	316.9	0.2	27.4	9.9	64.
25.3	75.3	8216.4	350.0	-37.8	-49.5	235.2	12.1	8.6	8.5	317.8	318.2	0.1	27.6	11.0	63.
29.2	79.3	8723.1	325.0	-41.4	99.9	226.7	15.0	10.9	10.3	319.6	999.9	99.9	999.9	12.5	61.
30.4	83.3	9262.0	300.0	-45.7	99.9	218.9	14.8	9.3	11.5	321.0	999.9	99.9	999.9	14.7	59.
32.7	87.5	9842.0	275.0	-45.4	99.9	185.1	12.5	1.1	12.6	329.4	999.9	99.9	999.9	16.1	55.
34.0	92.2	10477.7	250.0	-47.4	99.9	171.3	14.0	-2.1	13.8	335.6	999.9	99.9	999.9	17.0	50.
37.4	97.0	11166.0	225.0	-49.2	99.9	173.5	14.8	-1.7	14.7	343.1	999.9	99.9	999.9	18.2	44.
39.9	102.1	11934.7	200.0	-49.0	99.9	189.4	15.5	2.5	15.3	355.3	999.9	99.9	999.9	19.6	39.
42.8	109.2	12813.7	175.0	-49.3	99.9	199.9	12.5	4.3	11.8	364.6	999.9	99.9	999.9	22.4	37.
44.0	114.3	13815.7	150.0	-51.8	99.9	209.3	10.7	5.1	9.4	380.8	999.9	99.9	999.9	24.4	36.
49.7	121.3	14997.9	125.0	-58.1	99.9	199.6	7.7	2.6	7.3	395.3	999.9	99.9	999.9	26.1	35.
54.0	129.0	16411.5	100.0	-55.7	99.9	206.7	8.8	4.0	7.9	420.2	999.9	99.9	999.9	28.7	34.
59.5	137.3	18272.1	75.0	-59.5	99.9	157.6	3.7	-1.4	3.4	448.2	999.9	99.9	999.9	30.1	33.
67.3	145.5	20809.5	50.0	-54.9	99.9	82.7	4.9	-4.9	-0.6	514.2	999.9	99.9	999.9	29.4	32.
80.4	154.0	25271.4	25.0	-50.6	99.9	79.4	10.4	-10.2	-1.9	639.3	999.9	99.9	999.9	26.5	22.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OF TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 11001
MARSHALL SFC. ALABAMA

27 MAY 1977
2357 GMT

138 16 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	4.7	180.0	999.5	25.0	20.3	50.0	2.1	-1.6	-1.3	300.1	340.9	15.4	71.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	7.9	301.8	975.0	24.1	18.2	999.9	999.9	99.9	99.9	299.4	335.5	13.7	69.8	999.9	999.
1.5	10.1	528.9	950.0	22.1	16.8	999.9	999.9	99.9	99.9	299.6	333.8	12.9	72.1	999.9	999.
2.4	12.1	760.7	925.0	20.0	15.5	999.9	999.9	99.9	99.9	299.8	332.0	12.1	75.3	0.3	270.
3.6	14.4	996.7	900.0	17.9	14.3	142.1	2.5	-1.5	2.0	300.0	330.7	11.5	79.3	0.4	285.
4.3	16.5	1237.6	875.0	15.8	11.5	122.5	3.5	-2.2	1.4	300.3	326.7	9.8	75.2	0.6	293.
5.4	18.7	1483.5	850.0	14.2	10.0	105.3	2.6	-2.5	0.7	301.1	325.9	9.1	75.7	0.7	293.
6.3	20.8	1735.3	825.0	12.5	8.6	93.6	2.8	-2.8	0.2	301.8	325.3	8.6	77.4	0.9	291.
7.4	23.2	1993.1	800.0	10.7	7.0	80.3	3.1	-3.0	-0.5	302.5	324.4	7.9	78.3	1.0	286.
8.4	25.5	2257.8	775.0	9.4	4.7	72.9	3.1	-3.0	-0.9	304.0	323.4	6.9	72.2	1.2	282.
9.4	27.8	2530.6	750.0	8.0	3.1	63.2	3.3	-3.0	-1.5	305.3	323.4	6.4	71.2	1.4	277.
10.4	30.3	2809.1	725.0	6.3	1.4	65.7	2.8	-2.5	-1.1	306.5	323.3	5.9	70.7	1.6	273.
11.8	32.7	3096.9	700.0	4.5	-0.5	39.9	3.1	-2.0	-2.4	307.5	322.7	5.3	69.8	1.7	269.
13.0	35.3	3392.4	675.0	3.4	-1.5	5.9	4.2	-0.4	-4.2	309.4	324.2	5.1	70.2	1.8	261.
14.2	37.6	3697.9	650.0	1.0	-2.2	354.6	3.8	0.4	-3.8	310.1	324.7	5.0	78.9	1.9	252.
15.4	40.3	4012.1	625.0	-1.9	-2.6	11.9	2.7	-0.5	-2.6	310.3	325.1	5.1	84.5	2.0	245.
15.6	42.9	4335.1	600.0	-3.6	-6.5	72.1	2.7	-2.9	-0.8	311.9	323.7	4.0	81.0	2.1	243.
14.0	45.5	4672.3	575.0	-4.4	-11.0	82.6	4.4	-4.4	-0.6	314.3	323.7	2.9	60.0	2.4	246.
13.5	48.2	5021.7	550.0	-5.9	-14.4	77.7	6.1	-6.0	-1.3	317.2	324.3	2.3	50.5	2.9	249.
20.9	50.9	5385.4	525.0	-7.2	-16.7	73.6	5.7	-5.5	-1.6	319.9	326.1	2.0	46.4	3.4	249.
22.4	53.3	5764.1	500.0	-9.7	-21.8	75.1	5.1	-4.9	-1.3	321.2	325.6	1.3	36.8	3.8	250.
23.9	55.8	6159.9	475.0	-12.8	-25.0	79.0	5.2	-5.1	-1.2	322.2	325.7	1.1	35.0	4.3	251.
25.6	58.9	6568.2	450.0	-15.2	-29.4	83.9	7.7	-7.7	0.4	324.1	326.7	0.7	28.4	5.1	253.
27.4	62.9	6997.8	425.0	-18.4	-33.7	98.5	7.7	-7.6	1.1	325.5	327.3	0.5	24.3	5.8	256.
29.2	66.1	7445.7	400.0	-22.4	-35.0	84.4	5.5	-5.5	0.4	325.8	327.6	0.5	30.4	6.5	259.
30.9	69.6	7917.4	375.0	-26.0	-34.6	81.6	3.2	-3.2	-0.5	327.2	328.7	0.4	36.0	6.6	259.
32.9	73.0	8412.8	350.0	-30.5	-39.7	79.3	2.4	-2.3	-0.4	327.6	328.8	0.3	35.7	7.2	259.
34.7	76.5	8935.1	325.0	-34.7	-44.3	79.3	0.8	-0.8	-0.1	328.9	329.8	0.2	36.6	7.4	259.
36.9	80.4	9488.5	300.0	-39.1	99.9	31.1	0.7	-0.4	-0.6	330.3	999.9	99.9	999.9	7.4	259.
39.2	84.3	10079.1	275.0	-44.5	99.9	271.6	2.4	2.4	-0.1	330.8	999.9	99.9	999.9	7.3	258.
41.8	88.5	10710.1	250.0	-49.8	99.9	227.6	5.5	4.1	3.7	332.1	999.9	99.9	999.9	6.8	260.
44.5	93.9	11391.0	225.0	-54.9	99.9	235.9	7.1	5.9	4.0	334.4	999.9	99.9	999.9	5.9	267.
47.7	97.6	12137.9	200.0	-60.6	99.9	240.7	9.6	8.4	-1.6	336.7	999.9	99.9	999.9	4.8	269.
50.4	102.6	12964.8	175.0	-64.3	99.9	318.3	9.5	6.3	-7.1	343.9	999.9	99.9	999.9	3.5	251.
53.0	107.9	13907.0	150.0	-60.8	99.9	282.5	6.3	6.1	-1.4	365.4	999.9	99.9	999.9	3.0	227.
56.1	113.5	15034.6	125.0	-63.0	99.9	292.0	9.0	7.4	-3.0	381.0	999.9	99.9	999.9	2.5	204.
59.4	119.8	16410.7	100.0	-63.3	99.9	318.3	7.8	5.2	-5.8	405.4	999.9	99.9	999.9	4.4	184.
70.8	126.3	18165.1	75.0	-65.5	99.9	18.6	6.7	-2.1	-6.3	435.7	999.9	99.9	999.9	6.5	176.
80.9	133.3	20437.9	50.0	-57.2	99.9	335.1	3.4	1.4	-3.0	508.8	999.9	99.9	999.9	7.8	176.
97.4	140.5	25151.9	25.0	-51.1	99.9	79.4	5.5	-5.4	-1.0	639.6	999.9	99.9	999.9	9.4	204.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 4 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 4 DEG

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28 May 1977

200 GMT

STATION NO. 229
CENTERVILLE, ALABAMA

29 MAY 1977
256 GMT

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TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.0	140.0	992.5	21.8	19.7	230.0	3.1	2.4	2.0	295.5	333.9	14.8	88.0	0.0	0.
99.0	99.0	99.0	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.0	999.
0.5	9.4	205.2	975.6	21.9	19.2	186.5	5.6	0.7	6.6	297.2	335.3	14.6	85.0	0.2	18.
1.6	10.7	321.5	950.0	21.5*	18.3	155.5	4.9	-2.1	4.5	299.0	336.2	14.1	81.7	0.5	348.
2.5	13.0	752.9	925.0	19.9	17.8	133.7	4.4	-3.2	3.0	299.7	336.8	14.0	87.4	0.7	345.
3.6	15.3	999.7	900.0	18.2	16.6	131.4	4.3	-3.2	2.8	300.2	335.8	13.4	90.6	0.9	337.
4.4	17.5	1210.8	875.0	16.7	13.1	127.9	3.5	-2.8	2.2	301.1	330.7	11.0	79.6	1.1	332.
5.4	20.0	1427.9	850.0	15.2	11.2	117.4	2.0	-1.8	0.9	302.0	329.0	9.9	77.3	1.3	329.
6.4	22.2	1630.1	825.0	13.8	10.7	79.4	1.2	-1.2	-0.2	302.4	329.2	9.9	85.5	1.7	308.
7.3	24.7	1828.7	800.0	11.0	9.8	50.8	1.4	-1.1	-0.9	302.9	329.1	9.6	91.8	1.4	329.
8.4	25.9	2253.8	775.0	9.9	8.4	5.7	1.6	-0.2	-1.6	304.5	329.3	9.0	90.5	1.3	320.
9.5	29.5	2526.0	750.0	7.5	6.6	346.7	2.2	0.5	-2.2	304.7	327.6	8.2	94.1	1.2	316.
10.7	32.1	2805.2	725.0	6.0	5.2	335.1	3.4	1.4	-3.1	306.1	327.6	7.7	94.3	1.0	312.
11.9	34.9	3089.5	700.0	4.4	3.5	337.5	4.1	1.8	-3.7	307.3	327.3	7.1	94.0	0.8	305.
13.0	37.7	3380.1	675.0	2.2	1.3	340.9	4.0	1.3	-3.8	308.1	326.0	6.3	93.7	0.6	290.
14.1	40.0	3662.8	650.0	0.8	-0.1	345.9	4.5	1.1	-4.4	309.8	326.8	5.9	94.0	0.5	282.
15.4	42.6	4007.7	625.0	-1.5	-2.3	337.0	5.7	2.2	-5.2	310.9	325.3	5.2	94.2	0.6	287.
17.0	45.4	4331.9	600.0	-3.5	-4.3	338.2	6.2	2.3	-5.8	312.1	325.9	4.7	94.2	1.0	183.
19.5	48.3	4667.9	575.0	-5.3	-6.1	352.5	7.8	1.0	-7.7	313.9	326.5	4.2	94.8	1.6	177.
20.1	51.1	5016.1	550.0	-7.1	-9.2	349.7	9.2	1.6	-9.0	315.4	326.7	3.7	93.5	2.4	175.
21.5	54.2	5377.6	525.0	-9.3	-14.8	349.9	9.4	1.9	-9.3	317.3	324.5	2.3	84.5	3.2	174.
23.0	57.1	5754.6	500.0	-9.7	-25.4	340.9	7.2	2.4	-6.8	321.3	324.5	1.0	26.3	3.9	173.
24.4	60.4	6149.6	475.0	-12.6	-33.5	330.9	6.2	3.0	-5.4	322.3	324.0	0.5	15.6	4.5	171.
25.0	63.7	6559.0	450.0	-14.9	-56.4	330.3	3.1	1.5	-2.7	324.5	324.6	0.0	1.8	4.9	168.
27.5	67.0	6988.5	425.0	-18.3	-58.3	47.3	0.9	-0.7	-0.6	325.6	325.7	0.0	1.5	5.0	164.
29.3	70.4	7439.4	400.0	-21.7	-40.7	81.8	2.2	-2.2	-0.3	326.7	327.7	0.3	16.0	5.0	170.
31.0	74.0	7909.7	375.0	-25.6	-47.0	94.4	2.5	-2.5	0.2	327.7	328.6	0.2	19.7	5.0	173.
32.9	77.9	8405.4	350.0	-29.7	-49.5	53.5	1.6	-1.3	-0.9	328.7	329.1	0.1	12.6	4.9	176.
34.7	81.7	8928.9	325.0	-34.4	-52.3	29.1	1.5	1.3	-1.4	329.3	329.7	0.1	16.8	5.0	175.
35.8	85.7	9483.8	300.0	-39.4	-49.1	264.1	6.9	6.9	0.7	331.3	331.9	0.2	34.8	5.1	167.
39.1	90.9	10075.7	275.0	-43.5	99.9	264.9	7.2	7.2	0.4	332.3	999.9	99.9	999.9	5.3	156.
41.6	94.8	10710.2	250.0	-48.4	99.9	264.6	10.4	10.4	1.0	334.2	999.9	99.9	999.9	6.0	143.
44.2	99.4	11395.2	225.0	-53.9	99.9	262.8	11.7	11.6	1.5	335.9	999.9	99.9	999.9	6.9	132.
47.0	104.5	12142.1	200.0	-59.6	99.9	256.9	13.9	13.5	3.1	338.4	999.9	99.9	999.9	8.3	120.
49.6	110.2	12966.6	175.0	-64.8	99.9	278.9	12.1	11.9	-1.9	342.9	999.9	99.9	999.9	10.2	114.
53.2	116.3	13907.0	150.0	-64.2	99.9	295.6	10.5	9.5	-4.6	359.6	999.9	99.9	999.9	12.2	111.
57.1	123.3	15024.9	125.0	-62.5	99.9	339.8	9.6	4.7	-8.4	380.0	999.9	99.9	999.9	14.5	117.
62.5	130.9	16404.4	100.0	-53.4	99.9	302.0	9.3	7.1	-6.4	405.3	999.9	99.9	999.9	17.0	118.
69.4	138.7	18152.6	75.0	-48.5	99.9	351.7	5.0	0.7	-4.9	429.3	999.9	99.9	999.9	18.9	115.
77.8	147.0	20649.7	50.0	-58.4	99.9	74.3	5.2	-5.0	-1.4	506.8	999.9	99.9	999.9	17.8	127.
92.1	155.7	25087.8	25.0	-50.7	99.9	999.9	999.9	99.9	99.9	639.3	999.9	99.9	999.9	15.8	138.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 235
JACKSON, MISSISSIPPI

28 MAY 1977
300 GMT

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TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	0.0	100.0	995.0	24.4	19.7	250.0	0.0	0.0	0.0	294.2	336.7	14.7	74.6	0.0	0.
99.0	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.7	0.4	279.5	975.0	26.4	18.9	260.7	5.2	5.1	0.8	301.7	339.9	14.3	63.7	0.1	69.
1.6	10.5	508.7	950.0	24.7	17.3	291.9	3.8	3.7	-0.9	302.2	337.9	13.3	63.8	0.4	82.
2.6	12.6	742.3	925.0	22.7	15.9	307.9	3.9	3.1	-2.3	302.6	336.1	12.5	65.5	0.6	94.
3.6	14.9	980.6	900.0	21.0	15.0	326.1	5.7	2.9	-4.4	303.1	335.8	12.1	68.8	0.8	100.
4.6	17.1	1224.2	875.0	18.7	13.8	336.8	5.9	2.4	-5.4	303.2	334.4	11.5	73.2	1.1	122.
5.7	19.5	1479.7	850.0	16.4	12.4	344.4	5.8	1.5	-5.5	303.3	332.6	10.8	77.4	1.4	132.
6.8	21.7	1726.5	825.0	14.2	11.2	353.4	5.4	0.7	-6.4	303.6	331.4	10.2	82.3	1.7	140.
7.7	24.1	1986.1	800.0	12.3	9.0	354.8	7.0	0.6	-7.0	304.3	329.3	9.1	80.0	2.0	147.
8.9	26.4	2252.0	775.0	10.5	8.5	351.4	6.9	1.0	-6.7	305.1	330.2	9.1	87.3	2.5	152.
10.1	29.1	2525.1	750.0	8.5	6.1	350.3	7.0	1.2	-6.9	306.9	328.0	7.9	79.3	3.0	155.
11.3	31.7	2806.3	725.0	7.9	4.0	344.4	7.7	2.0	-7.4	309.1	328.1	7.9	76.1	3.5	157.
12.6	34.3	3095.4	700.0	6.3	2.3	337.9	9.0	3.9	-8.0	309.5	328.1	6.8	75.2	4.1	157.
13.7	36.9	3393.7	675.0	4.4	-2.4	335.0	10.4	6.0	-8.6	310.6	324.6	4.9	61.4	4.7	156.
14.9	39.7	3700.9	650.0	2.1	-5.4	324.5	12.6	7.3	-10.3	311.3	322.2	3.6	53.2	5.5	154.
15.9	42.3	4015.6	625.0	0.5	-11.5	332.2	13.5	6.3	-12.0	313.1	320.8	2.5	40.1	6.5	153.
17.4	45.2	4339.2	600.0	-1.4	-20.6	333.2	14.0	6.3	-12.5	314.6	318.5	1.2	21.4	7.6	153.
18.7	48.2	4670.4	575.0	-3.4	-25.1	323.9	12.7	7.5	-10.3	315.5	318.3	0.9	17.2	8.6	153.
20.0	51.0	5009.1	550.0	-5.7	-17.7	312.6	10.2	7.5	-6.9	317.4	323.1	1.8	36.3	9.5	152.
21.5	54.1	5352.0	525.0	-8.5	-16.3	313.9	9.8	7.1	-6.8	318.2	324.6	2.0	52.2	10.3	150.
22.9	57.1	5700.8	500.0	-11.6	-16.8	315.7	11.1	7.7	-7.9	318.9	324.4	1.7	55.2	11.1	149.
24.2	60.4	6150.5	475.0	-14.3	-19.1	311.3	9.5	7.1	-6.3	320.2	326.0	1.4	67.2	12.0	148.
25.7	63.9	6540.4	450.0	-16.5	-19.8	309.9	7.2	5.5	-4.6	322.5	328.2	1.8	75.5	12.7	147.
27.2	67.1	6905.7	425.0	-19.7	-23.4	293.9	6.2	5.7	-2.5	323.8	329.3	1.4	72.4	13.2	146.
28.9	70.9	7266.1	400.0	-22.2	-27.6	280.9	7.1	6.9	-1.3	324.1	329.0	0.9	61.0	13.7	144.
30.8	74.5	7615.9	375.0	-25.7	-34.3	268.5	8.5	8.5	0.2	327.5	329.5	0.6	46.4	14.3	142.
32.9	78.5	8010.7	350.0	-29.9	-44.5	259.8	8.9	9.8	1.7	328.4	329.2	0.2	22.5	14.9	139.
34.9	82.5	8373.8	325.0	-34.3	-42.9	235.1	6.2	5.1	3.5	329.4	330.3	0.3	46.6	15.3	134.
37.1	86.7	8680.0	300.0	-38.4	99.9	200.7	4.0	1.4	3.7	331.3	999.9	99.9	999.9	15.3	132.
39.2	91.2	10090.7	275.0	-43.9	99.9	200.8	5.2	1.9	4.8	331.6	999.9	99.9	999.9	15.1	130.
41.5	95.9	10715.0	250.0	-47.9	99.9	169.6	10.0	-1.9	9.8	334.9	999.9	99.9	999.9	14.8	128.
44.4	100.9	11409.3	225.0	-53.0	99.9	193.8	9.1	2.2	9.8	337.4	999.9	99.9	999.9	13.1	121.
47.2	106.5	12152.8	200.0	-58.1	99.9	296.3	4.7	4.2	-2.1	340.7	999.9	99.9	999.9	13.4	118.
50.4	112.3	12987.0	175.0	-61.5	99.9	262.6	6.6	6.5	-1.4	348.5	999.9	99.9	999.9	13.9	119.
53.7	118.7	13838.7	150.0	-64.2	99.9	292.3	13.7	12.7	-5.2	350.5	999.9	99.9	999.9	16.4	118.
57.9	125.9	14958.3	125.0	-63.3	99.9	299.1	10.0	9.9	-4.6	380.4	999.9	99.9	999.9	19.2	116.
62.8	133.7	16430.0	100.0	-67.5	99.9	307.4	6.9	5.4	-4.1	405.1	999.9	99.9	999.9	21.5	116.
69.1	141.7	18130.1	75.0	-65.9	99.9	20.2	4.1	-1.4	-3.9	434.7	999.9	99.9	999.9	22.7	118.
77.4	150.0	20644.5	50.0	-59.8	99.9	71.5	4.9	-4.6	-1.5	503.4	999.9	99.9	999.9	22.0	123.
91.6	158.7	25104.7	25.0	-50.4	99.9	44.3	7.0	-2.0	-2.0	640.1	999.9	99.9	999.9	20.0	131.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 240
LAKE CHARLES, LOUISIANA

28 MAY 1977
200 GMT

161 14. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	5.0	5.0	1007.0	25.6	21.7	210.0	1.6	1.0	1.2	299.2	341.2	16.5	79.0	0.0	0.
0.2	5.5	55.0	1000.0	26.0*	23.1	240.0	5.2	4.5	2.6	299.2	346.6	18.1	84.1	0.2	47.
1.2	8.8	280.8	975.0	25.3	19.1	249.4	6.4	6.1	2.3	300.7	339.1	14.5	68.5	0.8	56.
2.2	10.9	519.8	950.0	24.4	19.1	260.4	6.1	6.0	1.0	302.0	341.5	14.9	72.1	0.9	65.
3.1	13.3	759.7	925.0	23.1	17.6	262.5	6.1	6.0	-0.9	302.9	340.2	13.9	71.5	1.1	78.
4.8	15.5	997.8	900.0	21.4	16.4	324.1	3.0	1.7	-2.4	303.6	339.2	13.2	73.0	1.3	76.
4.9	17.8	1236.7	875.0	19.3	11.9	355.1	3.3	0.1	-3.3	303.9	335.1	11.5	71.2	1.3	84.
5.8	20.2	1475.9	850.0	17.5	11.9	15.0	4.3	-1.1	-4.1	304.5	333.1	10.4	65.5	1.2	94.
6.9	22.6	1741.0	825.0	16.4	7.4	22.2	5.6	-2.1	-5.2	305.9	328.2	8.0	55.8	1.2	107.
7.8	25.1	2001.0	800.0	16.4	2.0	25.4	5.5	-2.3	-4.9	308.5	324.8	5.8	39.8	1.2	123.
8.8	27.5	2272.4	775.0	15.2	-3.5	352.5	4.9	0.6	-4.8	310.2	321.2	3.7	26.4	1.3	138.
9.8	30.1	2540.4	750.0	14.1	-1.6	324.2	6.0	3.5	-4.9	311.9	325.3	4.6	33.9	1.6	139.
10.8	32.9	2824.9	725.0	12.7	-2.1	311.7	8.7	6.3	-6.0	313.0	326.4	4.5	30.4	2.0	138.
11.9	35.9	3129.2	700.0	10.6	-5.5	320.6	10.3	6.5	-7.9	314.3	325.2	3.6	31.5	2.7	137.
13.1	39.1	3450.6	675.0	7.7	-7.0	325.6	10.4	5.9	-8.6	314.2	324.4	3.4	34.4	3.4	136.
14.2	42.4	3779.0	650.0	4.7	-7.5	330.2	12.2	8.1	-10.6	314.1	324.4	3.3	40.8	4.1	140.
15.1	45.9	4097.2	625.0	1.6	-8.2	333.3	14.1	8.3	-12.6	314.3	324.3	3.3	48.1	4.8	142.
16.8	49.4	4384.4	600.0	-1.4	-9.4	334.4	15.4	8.7	-13.9	314.5	324.1	3.1	54.1	5.7	144.
17.3	53.0	4721.8	575.0	-4.8	-12.2	329.8	16.1	8.3	-13.8	314.9	322.4	2.6	56.5	6.9	145.
18.6	56.8	5070.3	550.0	-6.9	-22.7	317.0	17.4	11.9	-12.7	316.0	319.7	1.2	28.0	8.2	145.
20.1	59.9	5432.0	525.0	-7.0	-27.0	311.1	15.6	11.5	-10.9	320.1	321.2	0.3	7.0	9.7	143.
21.6	59.1	5811.9	500.0	-8.7	-38.3	314.9	11.2	7.9	-7.9	321.7	322.7	0.3	7.3	10.8	142.
22.9	62.6	6205.9	475.0	-12.4	-40.9	322.6	10.2	6.2	-8.1	322.7	323.5	0.2	7.1	11.6	141.
24.2	66.0	6616.1	450.0	-16.0	-43.	334.8	14.2	6.1	-12.9	323.1	323.8	0.2	7.5	12.5	142.
25.8	69.7	7044.2	425.0	-19.3	-43.9	338.8	19.7	10.2	-16.8	324.2	324.9	0.2	8.2	14.1	144.
27.4	73.3	7493.7	400.0	-22.4	-46.2	322.6	22.5	13.7	-17.9	325.8	326.4	0.1	8.4	16.2	144.
29.1	77.2	7969.0	375.0	-26.2	-47.0	322.5	23.1	14.1	-18.4	326.9	327.5	0.1	12.0	18.6	143.
31.1	81.2	8477.6	350.0	-30.3	-49.8	329.1	22.7	12.0	-19.3	327.9	328.3	0.1	18.6	21.2	144.
33.0	85.4	9020.1	325.0	-34.7	-53.1	327.2	24.7	13.4	-20.7	328.8	329.2	0.1	19.3	23.9	144.
35.3	89.9	9594.1	300.0	-39.7	99.9	327.2	23.9	15.5	-24.3	370.*	999.9	99.9	999.9	27.4	144.
37.5	94.6	10206.2	275.0	-44.4	99.9	329.2	32.2	17.9	-26.7	332.4	999.9	99.9	999.9	31.7	145.
39.9	99.5	10860.0	250.0	-48.5	99.9	322.4	31.0	18.9	-26.6	333.8	999.9	99.9	999.9	36.1	145.
42.2	104.6	11555.8	225.0	-52.8	99.9	307.3	31.2	24.8	-18.9	337.6	999.9	99.9	999.9	40.4	144.
45.1	110.4	12303.5	200.0	-55.5	99.9	317.0	27.8	18.9	-23.3	344.9	999.9	99.9	999.9	46.0	142.
48.1	116.7	13044.8	175.0	-58.6	99.9	315.3	21.9	15.4	-15.5	353.3	999.9	99.9	999.9	50.1	142.
52.1	123.7	14006.8	150.0	-62.5	99.9	299.4	20.2	17.6	-9.9	362.4	999.9	99.9	999.9	54.4	140.
56.2	131.3	15121.9	125.0	-65.2	99.9	314.5	18.3	13.1	-12.9	376.3	999.9	99.9	999.9	59.4	139.
61.2	139.0	16477.4	100.0	-65.6	99.9	321.5	9.0	5.0	-5.1	400.9	999.9	99.9	999.9	63.3	136.
67.3	145.3	19229.6	75.0	-45.6	99.9	327.2	4.2	2.3	-3.5	435.5	999.9	99.9	999.9	64.1	136.
79.2	151.*	20724.9	50.0	-59.0	99.9	54.4	6.4	-5.2	-3.7	504.7	999.9	99.9	999.9	64.5	141.
91.4	161.*	25183.1	25.0	-47.6	99.9	288.9	4.4	4.2	-1.4	948.3	999.9	99.9	999.9	63.3	144.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 247
LONGVIEW, TEXAS

28 MAY 1977
2115 GMT

151 11. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	0.0	124.0	993.1	25.6	19.5	140.0	1.5	-1.0	1.1	299.4	337.9	14.5	65.0	0.0	0.
99.0	99.0	99.0	1000.0	99.9	99.9	99.0	99.0	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.7	0.0	299.3	975.0	24.2	20.3	999.9	999.9	99.9	99.9	304.6	346.7	15.6	88.0	999.9	999.
1.4	10.5	515.7	950.0	26.0	19.4	999.9	999.9	99.9	99.9	306.3	342.9	14.2	80.3	999.9	999.
2.4	12.0	744.4	925.0	23.7	16.6	999.9	999.9	99.9	99.9	303.6	338.7	13.0	84.2	999.9	999.
3.3	15.2	977.7	900.0	21.7	16.2	182.7	5.2	0.2	5.2	303.9	329.2	13.0	71.1	1.0	333.
4.1	17.4	1210.0	875.0	19.3	15.7	178.3	5.1	-0.1	5.1	303.8	328.9	13.0	79.7	1.2	339.
5.0	19.7	1447.7	850.0	17.1	14.1	190.4	5.1	0.1	5.1	304.1	326.6	12.1	82.7	1.5	340.
6.0	21.9	1741.7	825.0	14.4	13.5	225.0	5.4	3.9	3.8	303.9	326.3	11.9	94.2	1.7	351.
6.9	24.4	1981.4	800.0	12.5	9.5	199.5	3.1	1.0	2.9	304.5	320.4	9.4	82.2	1.9	354.
8.0	26.7	2224.3	775.0	11.8	3.3	149.1	2.6	0.4	2.5	305.5	324.4	6.3	55.6	2.0	355.
8.9	29.3	2553.4	750.0	11.2	3.5	250.0	4.4	4.1	1.5	308.4	327.8	6.7	59.6	2.1	358.
10.0	31.9	2826.4	725.0	9.9	-4.0	241.0	6.4	6.3	-1.2	310.4	322.1	3.9	37.3	2.9	9.
11.0	34.4	3114.1	700.0	7.9	-8.6	271.4	7.1	7.1	-0.2	311.2	321.8	3.5	37.1	2.1	20.
12.1	36.9	3415.2	675.0	6.1	-8.4	276.7	9.7	9.7	-1.1	312.5	324.7	4.1	46.7	2.3	32.
13.3	39.7	3727.2	650.0	3.2	-8.5	287.4	11.4	10.9	-3.4	312.6	325.2	4.2	50.8	2.7	48.
14.4	42.2	4049.2	625.0	0.9	-9.7	290.8	12.1	11.3	-4.3	313.5	322.4	2.9	44.9	3.1	61.
15.6	44.1	4344.4	603.0	-2.4	-9.4	301.6	15.0	12.9	-7.9	313.4	322.9	3.1	58.6	3.8	73.
16.7	47.0	4701.0	575.0	-4.1	-14.6	302.8	15.7	13.2	-8.5	315.2	316.5	0.4	7.7	4.5	84.
18.0	50.7	5059.8	550.0	-5.5	-15.7	298.5	13.1	12.1	-5.5	317.6	317.8	0.1	1.3	5.4	90.
19.8	53.8	5419.3	525.0	-8.8	-50.3	299.7	12.0	10.5	-6.0	319.3	319.5	0.1	1.8	6.5	94.
21.0	54.7	5731.9	503.0	-10.6	-47.5	314.5	14.6	10.4	-10.2	320.1	320.5	0.1	2.9	7.4	99.
22.4	59.0	6106.5	475.0	-13.4	-38.8	315.9	14.8	13.1	-13.5	321.3	322.2	0.2	8.7	8.7	105.
24.0	63.3	6503.5	450.0	-16.7	-42.3	315.0	18.9	13.4	-13.4	322.2	322.9	0.2	8.9	10.2	110.
25.5	66.9	7070.1	425.0	-20.1	-42.1	314.4	19.9	13.5	-13.2	323.2	324.0	0.2	12.0	11.8	113.
27.2	70.1	7644.4	400.0	-23.6	-45.9	315.4	19.3	13.9	-14.1	324.3	324.9	0.2	10.7	13.6	116.
28.9	73.4	7935.0	375.0	-27.1	-50.6	319.5	23.7	15.7	-17.7	325.4	326.1	0.1	8.6	15.7	119.
30.7	77.4	8427.1	350.0	-31.4	-53.1	319.4	24.9	16.1	-19.0	326.4	326.7	0.1	5.6	18.2	122.
32.5	81.2	8948.5	325.0	-35.9	-56.8	321.2	24.2	15.2	-18.8	328.0	328.2	0.1	6.9	20.8	125.
34.8	85.7	9531.3	300.0	-39.8	99.9	316.5	25.9	19.9	-21.0	329.6	999.9	99.9	999.9	24.3	127.
37.1	90.4	10097.0	275.0	-44.1	99.9	310.0	31.7	24.7	-20.4	331.4	999.9	99.9	999.9	28.9	128.
40.0	96.3	10778.4	250.0	-49.0	99.9	309.7	30.0	23.1	-19.2	333.2	999.9	99.9	999.9	33.9	128.
43.3	99.0	11438.0	225.0	-53.9	99.9	302.6	26.0	21.9	-14.0	336.1	999.9	99.9	999.9	38.9	128.
46.1	104.0	12150.0	200.0	-57.9	99.9	300.4	29.0	25.0	-14.7	341.1	999.9	99.9	999.9	44.0	127.
48.7	109.9	12933.2	175.0	-62.2	99.9	321.3	24.2	15.1	-18.9	347.3	999.9	99.9	999.9	49.8	127.
52.4	115.4	13987.9	150.0	-63.8	99.9	314.2	11.7	5.1	-10.5	360.2	999.9	99.9	999.9	52.9	127.
58.2	122.7	15069.1	125.0	-64.7	99.9	308.9	17.6	13.7	-11.1	377.4	999.9	99.9	999.9	57.9	127.
64.7	129.7	16417.9	100.0	-66.0	99.9	353.6	5.1	0.0	-5.1	400.1	999.9	99.9	999.9	61.3	128.
70.4	137.0	18155.6	75.0	-66.2	99.9	327.7	3.1	1.8	-2.9	434.1	999.9	99.9	999.9	61.6	128.
79.9	144.8	21667.9	50.0	-61.6	99.9	63.4	4.4	-5.7	-2.9	498.5	999.9	99.9	999.9	61.9	129.
98.9	152.0	28057.9	25.0	-50.9	99.9	999.9	999.9	99.9	99.9	639.5	999.9	99.9	999.9	58.0	133.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 258
VICTORIA, TEXAS

29 MAY 1977
300 GMT

147 34. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	5.5	33.0	1004.3	24.0	20.5	160.0	4.1	-1.4	3.9	296.8	336.8	15.4	81.0	0.0	0.
0.1	5.9	70.8	1000.0	24.5	20.6	999.9	99.9	99.9	99.9	297.7	339.1	15.8	80.3	999.9	999.
1.1	7.7	237.9	975.0	24.0	20.4	999.9	999.9	99.9	99.9	299.4	340.7	15.7	80.2	999.9	999.
1.9	9.8	521.5	950.0	22.4	19.3	999	999.9	99.9	99.9	299.9	339.8	15.1	82.8	999.9	999.
2.7	11.6	753.6	925.0	20.7	15.6	999.9	999.9	99.9	99.9	300.5	333.9	12.5	74.5	999.9	999.
3.7	13.7	990.8	900.0	21.3	2.8	999.9	999.9	99.9	99.9	303.4	318.5	5.3	30.3	999.9	999.
4.6	15.7	1234.8	875.0	21.8	-0.9	999.9	999.9	99.9	99.9	306.4	318.3	4.1	21.9	1.7	348.
5.5	17.4	1435.3	850.0	20.9	-4.7	198.7	7.1	2.3	6.8	308.1	317.4	3.2	17.5	2.1	353.
6.6	20.0	1742.9	825.0	20.9	-7.5	219.0	6.1	3.8	4.8	310.6	318.6	2.6	14.1	2.4	359.
7.6	22.1	2008.9	800.0	20.2	-7.5	219.7	4.5	2.9	3.5	312.6	321.0	2.7	14.7	2.7	3.
8.7	24.4	2280.7	775.0	18.7	-6.1	236.9	3.5	2.9	1.9	313.9	325.2	3.8	21.6	2.9	6.
9.6	26.5	2550.9	750.0	16.7	2.7	251.4	4.9	4.5	1.5	314.3	332.6	6.2	36.9	3.3	10.
10.5	28.8	2818.4	725.0	14.3	2.5	262.9	6.2	6.2	0.8	315.2	333.8	6.4	44.9	3.1	15.
11.6	31.3	3144.1	700.0	12.2	3.2	267.0	7.9	7.9	0.4	316.0	336.4	6.9	54.2	3.3	22.
12.7	33.8	3447.8	675.0	9.9	-1.3	273.1	9.8	9.8	-0.5	316.8	332.3	5.2	45.5	3.6	31.
13.7	36.1	3740.3	650.0	7.4	-5.5	284.6	11.6	11.2	-2.9	317.3	329.3	3.9	36.5	3.9	40.
15.0	38.8	4091.5	625.0	4.3	-7.3	295.2	12.7	11.5	-5.4	317.4	328.3	3.5	42.5	4.2	52.
16.1	41.2	4412.1	600.0	1.2	-9.0	298.6	12.9	11.3	-6.2	317.5	328.2	3.5	50.2	4.7	62.
17.3	44.0	4752.7	575.0	-2.2	-9.6	307.3	13.4	10.6	-8.1	317.5	327.4	3.2	56.4	5.2	71.
18.6	46.9	5104.7	550.0	-4.1	-21.7	309.5	11.8	9.1	-7.5	319.3	323.3	1.2	23.8	5.8	80.
20.0	49.9	5469.8	525.0	-6.1	-34.5	306.0	10.7	8.6	-6.3	321.1	322.5	0.4	8.3	6.4	86.
21.4	52.8	5850.4	500.0	-7.8	-39.5	314.5	12.6	9.0	-8.8	323.5	324.4	0.2	5.7	7.1	91.
22.9	55.5	6247.5	475.0	-10.1	-38.0	316.9	13.2	9.0	-9.6	325.4	326.5	0.3	8.0	8.0	97.
24.2	58.3	6651.3	450.0	-12.6	-36.9	320.4	14.0	8.9	-10.8	326.2	327.5	0.4	11.9	8.8	102.
25.7	62.1	7093.1	425.0	-17.3	-36.7	320.9	15.3	9.5	-11.6	326.8	328.2	0.4	16.7	9.9	106.
27.2	65.4	7544.5	400.0	-20.9	-34.6	315.6	17.2	12.0	-12.3	327.9	329.6	0.5	27.9	11.1	110.
28.8	69.0	8017.5	375.0	-24.6	-37.1	309.9	17.3	13.5	-10.9	329.0	330.6	0.4	30.2	12.7	113.
30.5	72.5	8516.2	350.0	-29.7	-40.3	305.8	16.1	12.6	-10.1	330.0	331.2	0.3	31.5	14.3	115.
32.4	76.5	9041.9	325.0	-33.2	-44.6	310.7	17.3	13.1	-11.3	330.9	331.7	0.2	30.7	16.2	117.
34.4	80.6	9598.9	300.0	-37.9	99.9	306.7	18.8	15.0	-11.2	332.1	999.9	99.9	999.9	18.3	118.
36.5	84.8	10192.2	275.0	-42.6	99.9	301.7	19.9	17.0	-10.5	333.5	999.9	99.9	999.9	20.8	119.
38.1	88.2	10827.5	250.0	-48.6	99.9	297.3	21.1	18.8	-9.7	333.9	999.9	99.9	999.9	23.8	119.
41.5	96	11512.3	225.0	-54.1	99.9	293.8	22.8	20.6	-11.8	335.6	999.9	99.9	999.9	27.3	119.
44.8	94.6	12262.6	200.0	-54.0	99.9	300.9	25.7	22.1	-13.2	344.1	999.9	99.9	999.9	31.5	119.
47.8	105.3	13105.9	175.0	-59.2	99.9	297.6	29.2	25.9	-13.3	352.3	999.9	99.9	999.9	36.9	119.
51.5	111.5	14055.7	150.0	-62.2	99.9	310.2	25.3	19.4	-16.4	362.9	999.9	99.9	999.9	43.5	120.
55.7	118.7	15174.5	25.0	-66.6	99.9	306.7	14.3	11.5	-8.6	371.1	999.9	99.9	999.9	47.6	120.
60.1	126.7	16415.2	100.0	-67.0	99.9	272.1	6.4	6.4	-0.2	398.2	999.9	99.9	999.9	50.7	121.
64.7	135.0	17740.5	75.0	-69.6	99.9	313.4	3.9	2.8	-2.7	427.0	999.9	99.9	999.9	51.5	120.
75.4	145.0	20720.6	50.0	-59.0	99.9	999.9	999.9	99.9	99.9	504.5	999.9	99.9	999.9	50.8	123.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
# BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 260
STEPHENVILLE, TEXAS

28 MAY 1977
200 GMT

152 12. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	10.5	799.0	960.4	25.4	18.7	160.0	4.1	-1.4	3.9	302.0	339.5	14.0	68.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	11.3	495.2	950.0	26.0	17.8	161.9	11.4	-3.5	10.8	303.5	340.4	13.7	60.9	0.4	337.
1.2	13.5	736.7	925.0	25.4	16.1	169.9	11.3	-2.0	11.1	305.3	339.7	12.6	56.6	0.8	341.
2.1	15.7	971.3	900.0	23.7	15.2	178.1	12.4	-0.4	12.4	306.0	339.4	12.2	58.9	1.5	347.
3.0	18.0	1217.1	875.0	21.6	15.3	190.2	10.5	1.9	10.4	306.3	340.8	12.6	67.3	2.1	352.
4.0	20.3	1469.3	850.0	19.2	14.6	199.7	10.9	3.7	10.2	306.3	340.2	12.4	74.6	2.7	357.
5.0	22.5	1725.0	825.0	17.5	13.3	209.4	9.3	4.5	8.1	307.1	339.6	11.8	76.4	3.3	2.
6.0	24.9	1987.9	800.0	15.9	9.7	236.8	6.5	5.4	3.6	308.1	334.8	9.6	66.9	3.7	6.
7.1	27.2	2258.8	775.0	16.9	2.6	271.5	6.7	6.7	-0.2	312.0	329.4	6.0	38.2	3.8	12.
8.3	29.8	2537.3	750.0	14.8	-1.5	276.3	8.4	8.4	-0.9	312.7	326.2	4.6	32.4	3.9	20.
9.3	32.1	2822.9	725.0	13.0	-6.0	265.7	9.7	9.6	0.7	313.7	323.9	3.4	26.2	4.1	27.
10.4	34.9	3116.3	700.0	10.4	-7.2	265.9	9.6	9.6	0.7	314.1	323.8	3.2	28.2	4.5	34.
11.7	37.4	3417.8	675.0	8.0	-8.4	260.9	9.3	9.2	1.5	314.6	323.8	3.0	30.3	4.9	41.
12.9	40.1	3727.5	650.0	5.0	-7.8	254.5	10.0	9.7	2.7	314.6	324.6	3.3	38.9	5.5	48.
14.1	43.7	4045.3	625.0	2.7	-12.4	260.6	10.3	10.1	1.7	315.6	323.0	2.4	31.6	6.2	48.
15.5	45.4	4375.4	600.0	1.4	-21.1	269.8	9.9	9.4	-3.2	317.7	322.0	1.3	16.7	6.8	53.
16.9	48.4	4717.0	575.0	-0.3	-28.6	287.7	11.5	10.2	-5.4	319.7	321.8	0.6	9.6	7.2	60.
18.4	51.1	5070.5	550.0	-2.0	-31.6	293.3	12.1	11.1	-4.8	320.5	322.2	0.5	8.8	7.8	66.
19.9	54.3	5437.1	525.0	-5.2	-30.8	292.8	14.1	13.0	-5.5	321.9	323.8	0.6	11.5	8.6	71.
21.4	57.3	5817.7	500.0	-8.3	-32.3	287.3	16.4	15.6	-4.9	322.9	324.7	0.5	12.3	9.9	77.
23.0	60.6	6213.5	475.0	-11.5	-34.2	280.9	18.2	17.8	-3.4	323.7	325.3	0.4	12.2	11.3	81.
24.5	64.0	6624.5	450.0	-15.6	-34.1	278.0	18.2	18.1	-2.5	323.7	325.3	0.5	18.6	13.0	83.
26.1	67.2	7053.2	425.0	-18.9	-34.6	286.2	16.8	16.1	-4.7	324.9	326.5	0.5	23.2	14.5	85.
27.8	70.7	7502.1	400.0	-22.4	-34.3	295.1	16.7	15.1	-7.1	325.9	327.7	0.5	32.6	16.0	88.
29.7	74.4	7972.9	375.0	-25.2	-38.0	299.9	19.2	16.7	-9.6	326.9	328.3	0.4	31.9	17.8	91.
31.6	78.3	8468.2	350.0	-30.1	-45.5	299.9	20.9	18.1	-10.4	329.2	328.9	0.2	20.3	19.9	94.
33.6	82.2	8991.0	325.0	-34.1	-47.4	295.8	21.1	19.0	-9.2	329.7	330.3	0.2	24.2	22.2	97.
35.7	86.3	9544.1	300.0	-39.1	-43.2	299.5	22.6	21.3	-7.5	330.3	331.3	0.3	64.4	24.9	98.
37.9	90.6	10134.3	275.0	-43.7	99.9	283.4	26.0	25.3	-6.0	331.9	999.9	99.9	999.9	28.0	99.
40.4	95.7	10769.2	250.0	-49.1	99.9	281.6	26.2	25.5	-5.3	333.0	999.9	99.9	999.9	32.0	100.
43.0	100.5	11452.0	225.0	-54.4	99.9	281.4	25.8	25.3	-5.1	335.1	999.9	99.9	999.9	36.1	100.
46.3	106.0	12198.3	200.0	-58.0	99.9	288.1	25.8	24.5	-8.0	340.9	999.9	99.9	999.9	41.0	100.
49.6	111.8	13014.5	175.0	-61.2	99.9	289.7	24.5	23.1	-8.3	348.9	999.9	99.9	999.9	46.0	102.
53.5	118.0	13909.5	150.0	-62.2	99.9	295.0	23.5	21.3	-9.9	362.9	999.9	99.9	999.9	51.8	103.
57.8	125.3	15105.8	125.0	-64.9	99.9	293.5	16.3	15.0	-6.5	377.6	999.9	99.9	999.9	56.2	104.
62.8	132.7	16458.8	100.0	-66.5	99.9	282.8	7.1	6.9	-1.6	399.3	999.9	99.9	999.9	59.8	104.
69.0	140.5	18197.0	75.0	-67.9	99.9	269.7	3.8	3.8	0.0	430.7	999.9	99.9	999.9	61.2	104.
77.5	148.3	20690.6	50.0	-59.1	99.9	51.2	6.8	-5.3	-4.2	504.4	999.9	99.9	999.9	61.1	105.
91.3	156.7	25105.3	25.0	-51.9	99.9	999.9	999.9	99.9	99.9	635.9	999.9	99.9	999.9	58.8	108.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 261
DEL RIO, TEXAS

28 MAY 1977
200 GMT

184 11. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.6	314.0	969.4	26.3	22.4	140.0	3.1	-2.0	2.4	302.1	349.5	17.9	79.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.7	10.1	491.6	950.0	26.5	23.6	166.9	9.0	-2.0	8.8	304.1	356.6	19.7	83.9	0.3	337.
1.6	12.1	729.5	925.0	24.2	21.6	159.1	9.5	-3.4	8.8	304.1	352.0	17.9	85.3	0.8	341.
2.7	14.2	970.1	900.0	22.5	21.0	151.7	11.2	-5.3	9.9	304.7	352.1	17.7	91.0	1.4	338.
3.7	16.2	1215.7	875.0	20.3	19.7	147.8	12.1	-6.5	10.2	304.9	350.1	16.8	96.5	2.2	338.
4.7	18.4	1466.6	850.0	19.6	12.2	142.4	8.4	-5.1	6.7	306.7	337.0	11.0	64.9	2.8	333.
5.8	20.5	1725.0	825.0	22.0	-0.5	101.5	3.1	-3.0	0.6	311.9	325.1	4.5	22.3	3.2	331.
7.0	22.7	1991.3	800.0	20.8	2.2	356.9	1.0	0.1	-1.0	313.3	329.8	5.6	26.2	3.2	329.
8.2	25.1	2266.5	775.0	18.0	5.0	289.0	2.5	2.4	-0.8	313.2	333.8	7.1	42.2	3.1	330.
9.3	27.2	2544.5	750.0	16.1	2.5	275.9	4.9	4.9	-0.5	314.1	332.1	6.2	40.1	3.0	334.
10.6	29.7	2831.6	725.0	13.7	1.9	272.8	7.0	7.0	-0.3	314.5	332.4	6.1	44.7	2.7	342.
11.8	32.2	3126.2	700.0	11.1	0.8	270.6	9.0	9.0	-0.1	314.8	332.0	5.8	48.6	2.6	358.
12.9	34.7	3428.6	675.0	8.3	-0.9	272.4	10.9	10.9	-0.4	314.9	330.7	5.3	52.3	2.6	9.
14.3	37.1	3739.3	650.0	5.8	-3.7	276.2	13.8	13.7	-1.5	315.6	329.0	4.5	58.1	2.9	20.
15.7	39.8	4059.3	625.0	3.5	-8.7	280.4	17.1	16.8	-3.1	316.5	326.3	3.2	60.5	3.6	49.
17.1	42.3	4390.0	600.0	2.5	-18.8	291.1	15.7	14.6	-5.6	319.0	323.8	1.5	19.4	4.6	65.
19.5	45.1	4733.7	575.0	2.4	-29.1	288.1	12.8	12.2	-4.0	322.8	324.9	0.6	7.6	5.4	74.
19.8	49.0	5090.1	550.0	-1.0	-29.7	283.3	12.0	11.7	-2.8	322.9	324.9	0.6	9.1	6.3	79.
21.3	50.9	5459.8	525.0	-4.7	-30.1	275.5	10.9	10.9	-1.0	322.9	324.8	0.6	11.5	7.3	82.
22.8	53.9	5839.9	500.0	-7.8	-29.1	266.9	9.3	9.2	0.8	323.6	325.9	0.7	16.1	8.2	83.
24.4	56.9	6234.9	475.0	-10.7	-29.7	267.6	9.8	9.8	0.4	324.7	327.1	0.7	16.1	9.0	83.
26.1	60.1	6650.1	450.0	-14.0	-31.1	273.6	11.0	11.0	-0.7	325.6	327.8	0.6	21.8	10.0	84.
27.8	63.6	7091.3	425.0	-17.4	-33.1	281.6	12.4	12.2	-2.5	325.6	326.6	0.5	23.9	11.2	85.
29.6	66.9	7531.4	400.0	-22.0	-35.9	280.8	14.0	13.7	-2.6	326.4	328.0	0.4	26.9	12.5	87.
31.3	70.5	8002.9	375.0	-25.4	-40.6	282.7	15.6	15.3	-3.4	328.0	329.1	0.3	22.5	14.0	89.
33.1	74.2	8500.2	350.0	-29.0	-41.5	281.8	17.5	17.1	-3.6	329.6	330.7	0.3	28.6	15.8	90.
35.1	78.3	9024.7	325.0	-34.1	-44.1	285.8	19.0	18.3	-5.2	329.8	330.6	0.2	35.1	17.9	92.
37.2	82.3	9579.5	300.0	-38.8	99.9	282.6	20.0	19.5	-4.3	330.6	999.9	99.9	999.9	20.3	93.
39.3	86.5	10170.1	275.0	-44.1	99.9	276.2	19.9	19.8	-2.1	331.4	999.9	99.9	999.9	22.9	94.
41.9	91.4	10802.1	250.0	-49.1	99.9	271.9	17.1	17.1	-0.6	333.0	999.9	99.9	999.9	25.5	94.
44.2	96.2	11484.8	225.0	-53.5	99.9	276.1	19.3	19.2	-2.0	336.5	999.9	99.9	999.9	28.1	94.
47.4	101.5	12241.8	200.0	-58.1	99.9	286.6	24.9	23.8	-7.1	345.5	999.9	99.9	999.9	32.3	95.
51.0	107.5	13085.7	175.0	-60.1	99.9	287.0	26.7	25.5	-7.8	350.8	999.9	99.9	999.9	37.8	97.
54.9	114.0	14034.4	150.0	-65.7	99.9	290.9	23.6	22.2	-8.0	356.8	999.9	99.9	999.9	43.7	98.
59.2	121.3	15127.9	125.0	-69.2	99.9	300.5	14.2	12.2	-7.2	369.6	999.9	99.9	999.9	48.4	100.
63.9	129.5	16454.6	100.0	-69.8	99.9	251.9	6.9	6.6	2.2	393.0	999.9	99.9	999.9	51.0	100.
70.2	138.3	18159.7	75.0	-65.8	99.9	329.3	3.2	1.6	-2.7	426.7	999.9	99.9	999.9	52.2	100.
79.0	147.0	20653.5	50.0	-60.6	99.9	71.9	6.8	-6.4	-2.1	500.6	999.9	99.9	999.9	49.8	102.
91.8	156.3	25085.4	25.0	-50.3	99.9	999.9	999.9	99.9	99.9	640.4	999.9	99.9	999.9	46.5	104.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 265
MIDLAND, TEXAS

28 MAY 1977
2300 GMT

148 13. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.7	877.0	937.2	27.8	2.1	240.0	3.5	3.1	1.6	309.5	323.8	4.9	15.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	16.5	947.8	903.2	28.8	99.9	263.7	8.1	8.0	0.9	311.2	999.9	99.9	999.9	0.1	89.
1.3	17.7	1193.6	875.0	28.2	4.1	267.7	7.6	7.5	0.3	313.0	330.3	5.9	21.8	0.4	80.
2.2	20.2	1449.2	850.0	25.5	2.7	269.0	8.1	8.1	0.1	312.9	329.0	5.5	22.7	0.3	85.
3.2	22.4	1710.0	825.0	22.9	1.1	265.0	9.4	9.3	0.8	312.9	327.7	5.0	23.6	1.4	86.
4.1	24.9	1976.5	800.0	20.4	-0.3	261.2	10.2	10.0	1.8	313.1	327.0	4.7	24.8	1.9	85.
5.2	27.2	2248.3	775.0	18.5	-2.9	252.7	11.9	11.3	3.6	313.8	325.8	4.0	23.1	2.6	83.
6.3	29.8	2525.7	750.0	17.1	-3.0	244.3	13.6	12.3	5.9	315.1	327.5	4.1	25.2	3.4	79.
7.5	32.4	2811.1	725.0	14.7	-3.7	239.3	14.7	12.6	7.6	315.2	327.3	4.0	28.4	4.4	75.
8.5	35.1	3111.8	700.0	11.4	-5.3	241.0	15.7	13.7	7.6	315.1	326.3	3.7	30.6	5.4	72.
9.8	37.6	3416.1	675.0	9.6	-7.4	248.1	16.1	14.9	6.0	315.3	325.2	3.2	31.3	6.5	71.
11.0	40.3	3734.5	650.0	6.7	-10.0	253.2	15.7	15.0	4.5	315.5	324.0	2.7	31.1	7.7	71.
12.1	43.0	4063.6	625.0	3.0	-13.2	260.9	15.3	15.1	2.5	315.9	322.8	2.2	29.0	8.7	71.
13.4	45.9	4403.3	600.0	1.0	-15.9	274.4	15.1	15.0	-1.2	317.3	322.7	1.7	24.7	9.9	73.
14.8	48.9	4754.5	575.0	-0.6	-20.7	280.6	15.8	15.5	-2.9	319.3	323.5	1.3	20.2	11.0	76.
16.0	51.6	5069.1	550.0	-1.6	-24.2	288.0	17.3	16.5	-5.4	322.2	325.5	1.0	15.9	12.1	79.
17.4	54.7	5437.8	525.0	-4.1	-32.9	286.9	18.5	17.7	-5.4	323.5	327.1	1.1	19.7	13.4	82.
18.7	57.6	5800.3	500.0	-7.6	-17.8	285.1	18.7	17.7	-6.0	323.9	329.6	1.9	44.1	14.8	84.
20.2	60.9	6217.1	475.0	-11.2	-18.9	283.7	16.9	16.4	-4.0	324.1	330.0	1.4	53.1	16.2	86.
21.7	64.2	6636.1	450.0	-15.1	-18.6	285.5	16.5	16.0	-4.4	324.2	330.6	2.0	74.6	17.7	85.
23.2	67.6	7058.7	425.0	-18.9	-20.6	288.9	16.6	15.7	-5.4	324.8	330.5	1.7	86.0	19.1	89.
24.9	70.9	7507.6	400.0	-22.2	-23.4	286.9	15.0	14.3	-4.4	326.1	330.9	1.4	86.9	20.7	91.
26.9	74.4	7978.7	375.0	-25.9	-28.7	283.9	14.4	14.0	-3.5	327.3	330.5	0.9	77.4	22.3	92.
28.2	78.5	8474.4	350.0	-29.8	-33.4	278.4	15.7	16.5	-2.4	328.6	330.9	0.6	70.0	24.4	94.
31.7	82.7	8939.7	325.0	-33.4	-40.1	274.3	16.6	16.6	-1.2	330.6	331.9	0.4	60.6	26.8	93.
33.2	85.7	9556.7	300.0	-37.5	-47.1	274.1	17.7	17.7	-1.3	332.6	333.3	0.2	35.3	29.5	93.
36.5	90.7	10150.7	275.0	-42.8	99.9	270.2	16.3	16.3	-0.1	333.3	999.9	99.9	999.9	31.8	93.
38.4	95.7	10785.9	250.0	-48.3	99.9	264.0	17.4	17.3	1.8	334.1	999.9	99.9	999.9	34.3	93.
41.6	100.1	11477.2	225.0	-57.6	99.9	267.6	17.4	17.4	0.7	336.4	999.9	99.9	999.9	36.7	92.
44.4	105.3	12226.9	200.0	[illegible]	99.9	276.5	27.8	23.6	-2.7	344.6	999.9	99.9	999.9	40.3	92.
47.8	110.9	13057.1	175.0	[illegible]	99.9	277.8	26.2	26.0	-3.6	349.7	999.9	99.9	999.9	44.8	93.
50.9	117.0	14019.7	150.0	[illegible]	99.9	283.5	29.8	29.0	-7.0	360.5	999.9	99.9	999.9	50.8	93.
55.0	123.9	15131.0	125.0	-56.8	99.9	297.0	20.3	18.1	-9.2	375.9	999.9	99.9	999.9	57.2	95.
59.3	131.3	16430.4	100.0	-66.9	99.9	245.3	7.1	6.4	3.0	398.6	999.9	99.9	999.9	59.8	96.
65.3	139.3	18018.9	75.0	-67.1	99.9	152.8	3.7	-1.7	3.3	432.3	999.9	99.9	999.9	60.8	95.
73.5	147.7	20726.4	50.0	-59.6	99.9	51.4	6.7	-5.2	-4.2	503.2	999.9	99.9	999.9	59.2	96.
83.5	156.7	25152.0	25.0	-50.7	99.9	999.9	999.9	99.9	99.9	639.4	999.9	99.9	999.9	53.5	98.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 327
NASHVILLE, TENNESSEE

28 MAY 1977
216 GMT

156 12. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.5	180.0	988.0	22.5	17.0	140.0	3.2	-2.1	2.5	296.7	329.4	12.4	71.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	8.6	296.0	974.0	23.6	16.8	151.0	6.3	-3.1	5.5	298.9	332.1	12.5	65.7	0.4	337.
1.7	10.8	523.1	950.0	22.4	16.2	139.7	5.5	-3.6	4.2	300.0	332.9	12.3	68.0	0.7	334.
2.7	13.0	754.8	925.0	20.9	14.8	105.9	5.0	-4.8	1.4	300.7	331.7	11.5	67.9	1.0	328.
3.7	15.3	991.7	900.0	19.0	14.0	71.8	5.4	-5.1	-1.7	301.1	331.4	11.3	72.9	1.2	314.
4.8	17.5	1233.5	875.0	17.0	12.8	64.3	6.3	-5.7	-2.7	301.4	330.3	10.7	76.2	1.4	298.
5.9	19.9	1480.4	850.0	15.1	11.4	69.4	6.3	-5.9	-2.2	302.0	329.2	10.0	76.4	1.7	286.
7.0	22.2	1733.2	825.0	13.2	9.7	69.5	6.3	-5.9	-2.2	302.5	327.7	9.2	79.2	2.0	279.
8.0	24.6	1992.0	800.0	11.7	8.1	71.1	6.2	-5.9	-2.0	303.6	327.2	8.5	76.7	2.4	274.
9.1	27.0	2257.2	775.0	9.5	6.2	82.0	5.4	-5.4	-0.8	304.0	325.5	7.7	76.9	2.7	272.
10.1	29.5	2529.5	750.0	8.2	4.3	87.3	4.8	-4.8	-0.2	305.5	325.1	7.8	76.2	3.1	271.
11.5	32.2	2809.2	725.0	6.5	2.4	83.8	2.7	-2.7	-0.3	306.6	324.5	6.3	78.2	3.3	271.
12.6	34.9	3096.6	700.0	4.6	0.9	91.8	2.6	-2.6	0.1	307.6	324.3	5.8	76.6	3.5	270.
13.7	37.3	3392.4	675.0	2.5	-1.4	119.4	2.4	-2.1	1.2	308.4	323.3	5.1	75.6	3.7	271.
15.1	40.1	3696.5	650.0	-0.3	-2.0	126.5	2.6	-2.1	1.6	308.6	323.3	5.1	86.4	3.8	273.
15.7	42.8	4010.3	625.0	0.4	-14.7	111.7	3.1	-2.9	1.1	312.9	319.0	2.0	31.3	4.1	274.
18.1	45.8	4337.1	600.0	-0.6	-19.8	115.6	5.9	-5.3	2.5	315.4	319.6	1.3	21.8	4.4	276.
19.6	48.8	4675.2	575.0	-2.3	-21.0	110.4	6.6	-6.1	2.3	317.3	321.4	1.2	22.2	5.0	278.
21.1	51.6	5027.4	550.0	-5.1	-23.6	96.4	6.1	-6.1	0.7	318.1	321.5	1.0	21.7	5.5	279.
22.7	54.8	5390.7	525.0	-8.0	-25.9	76.4	5.4	-5.2	-1.3	318.8	321.7	0.9	22.0	6.1	278.
24.4	57.8	5768.0	500.0	-10.4	-28.5	83.0	4.3	-4.3	-0.5	320.4	322.9	0.7	21.0	6.5	276.
26.1	61.1	6161.0	475.0	-12.6	-29.9	111.4	5.8	-5.4	2.1	322.4	324.7	0.7	21.8	7.0	277.
28.0	64.6	6571.5	450.0	-15.4	-32.2	108.6	7.6	-7.2	2.4	323.9	325.9	0.6	21.9	7.7	278.
30.1	68.0	7000.4	425.0	-18.6	-34.9	95.5	6.9	-6.9	0.7	325.1	326.8	0.5	22.1	8.7	279.
32.3	71.5	7449.2	400.0	-22.6	-38.5	87.7	6.6	-6.6	-0.3	325.7	326.9	0.3	21.8	9.5	278.
34.8	75.3	7919.3	375.0	-26.6	-41.6	86.6	5.7	-5.7	-0.3	326.4	327.4	0.3	22.5	10.5	277.
37.2	79.4	8413.7	350.0	-30.5	-44.7	96.4	2.6	-2.6	0.3	327.7	328.4	0.2	23.2	11.0	276.
39.7	83.4	8936.1	325.0	-34.6	-47.0	113.4	2.1	-1.9	0.8	329.0	329.7	0.2	26.7	11.4	277.
42.4	87.7	9491.0	300.0	-39.0	-50.7	109.2	1.1	-1.0	0.3	330.4	330.9	0.1	27.3	11.8	277.
45.2	92.3	10081.3	275.0	-44.2	99.9	222.8	2.8	1.9	2.1	331.3	999.9	99.9	999.9	11.4	278.
48.1	97.0	10713.0	250.0	-49.5	99.9	227.8	4.4	3.2	2.9	332.5	999.9	99.9	999.9	10.9	281.
51.2	102.0	11392.9	225.0	-55.3	99.9	230.4	6.1	4.7	3.9	333.8	999.9	99.9	999.9	10.5	285.
54.7	107.8	12135.8	200.0	-60.6	99.9	264.4	5.8	5.8	0.6	336.9	999.9	99.9	999.9	9.5	290.
58.4	113.8	12960.3	175.0	-64.0	99.9	296.3	5.3	4.7	-2.3	344.3	999.9	99.9	999.9	8.2	291.
62.6	120.3	13907.5	150.0	-61.3	99.9	289.1	5.1	4.8	-1.7	364.5	999.9	99.9	999.9	7.1	293.
68.0	127.0	15039.6	125.0	-61.2	99.9	305.9	6.6	5.3	-3.9	384.1	999.9	99.9	999.9	5.0	295.
74.1	135.0	16414.8	100.0	-63.4	99.9	351.4	4.4	0.7	-4.4	405.2	999.9	99.9	999.9	3.8	286.
81.9	142.7	18183.7	75.0	-63.9	99.9	64.1	4.3	-3.9	-1.9	439.0	999.9	99.9	999.9	4.5	255.
91.5	150.0	20690.9	50.0	-59.5	99.9	72.1	6.4	-6.1	-2.0	503.4	999.9	99.9	999.9	7.2	253.
107.8	157.9	25144.8	25.0	-53.2	99.9	999.9	999.9	99.9	99.9	632.4	999.9	99.9	999.9	12.8	252.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 340
LITTLE ROCK, ARKANSAS

28 MAY 1977
2105 GMT

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	5.6	172.0	989.5	25.6	15.9	0.0	0.0	0.0	0.0	299.7	330.7	11.6	58.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	7.9	293.7	975.0	27.1	16.9	186.6	1.9	0.2	1.8	302.5	336.2	12.5	53.5	C.0	64.
1.3	10.2	523.4	950.0	25.5	15.5	258.6	1.6	1.6	0.3	303.0	335.0	11.8	54.2	0.1	66.
2.2	12.4	797.5	925.0	23.5	14.3	283.3	1.5	1.4	-0.3	303.4	333.9	11.2	56.3	0.2	76.
3.1	14.8	995.2	900.0	21.3	13.2	307.5	1.5	1.3	-0.8	303.5	332.7	10.7	55.8	0.3	85.
4.1	17.0	1230.8	875.0	19.9	11.9	333.1	1.0	0.4	-0.9	304.4	332.0	10.1	59.9	0.3	96.
5.0	19.5	1489.2	850.0	17.4	11.0	312.5	1.3	1.0	-0.9	304.4	331.3	9.8	66.8	0.4	102.
6.0	21.9	1743.7	825.0	15.2	10.0	331.0	1.9	0.9	-1.7	304.6	330.6	9.4	71.2	0.6	110.
6.9	24.4	2004.0	800.0	13.1	7.7	343.5	1.9	1.2	-2.4	305.1	328.2	8.3	69.8	0.5	119.
7.9	26.9	2270.5	775.0	11.1	4.9	347.7	2.7	1.2	-3.0	305.8	325.7	7.1	65.5	0.7	130.
8.9	29.6	2543.6	750.0	8.9	2.1	343.8	3.1	0.7	-4.1	306.3	323.2	6.0	62.2	0.8	137.
9.8	32.2	2824.1	725.0	8.1	-0.4	338.2	4.3	1.2	-4.9	308.3	323.2	5.1	58.0	1.1	143.
10.9	35.0	3112.9	700.0	6.0	-1.8	326.0	5.2	1.9	-5.2	309.2	323.1	4.8	57.0	1.4	146.
11.8	37.7	3410.4	675.0	4.0	-4.0	319.4	6.2	3.5	-6.9	310.1	322.5	4.2	55.8	1.8	144.
12.8	40.5	3719.3	650.0	1.7	-6.8	320.2	9.1	5.9	-9.3	310.9	320.0	3.0	48.7	2.5	142.
13.8	43.3	4031.3	625.0	-0.4	-14.2	321.6	12.1	7.7	-10.3	311.9	318.1	2.0	34.7	3.5	142.
15.0	46.4	4356.1	600.0	-3.0	-19.2	320.5	13.1	8.2	-10.1	312.7	317.3	1.5	28.7	4.4	142.
16.1	49.5	4692.5	575.0	-4.3	-25.1	309.7	13.1	8.3	-8.1	315.0	317.9	0.9	17.9	5.4	141.
17.5	52.5	5041.5	550.0	-6.4	-25.6	289.5	12.6	9.7	-4.9	316.5	319.4	0.9	20.1	6.3	139.
18.7	55.5	5403.8	525.0	-8.0	-31.7	288.9	9.9	8.6	-1.9	318.9	320.5	0.5	12.8	6.8	137.
20.0	58.9	5782.1	500.0	-9.4	-32.9	290.5	5.8	5.5	-1.3	321.6	323.3	0.5	12.7	7.0	136.
21.4	62.4	6175.8	475.0	-13.2	-28.5	290.7	3.6	3.4	-1.5	321.7	324.3	0.8	26.7	7.3	135.
22.9	65.9	6585.1	450.0	-16.7	-28.3	276.2	4.4	4.2	-0.5	322.8	325.6	0.8	34.3	7.7	133.
24.5	69.4	7012.9	425.0	-18.9	-41.6	254.0	5.0	5.0	1.1	324.8	325.6	0.2	11.4	8.1	130.
26.2	73.1	7461.6	400.0	-22.5	-36.4	251.3	5.3	5.2	1.7	325.7	327.2	0.4	26.9	8.4	127.
27.9	77.0	7931.4	375.0	-26.8	-39.5	247.3	5.2	4.9	2.0	326.2	327.4	0.3	28.5	8.6	125.
29.5	81.0	8425.3	350.0	-30.9	-44.4	224.5	5.2	4.8	4.5	327.2	327.9	0.2	24.7	8.8	121.
31.4	85.3	8948.3	325.0	-34.2	-41.3	211.0	6.2	4.4	6.4	329.5	330.6	0.3	48.3	8.9	118.
33.4	89.6	9507.6	300.0	-38.5	-48.9	207.1	7.5	3.9	6.4	331.1	331.6	0.1	32.0	9.1	111.
35.5	94.4	10094.7	275.0	-43.7	99.9	200.6	7.2	3.3	8.3	332.0	999.9	99.9	999.9	9.2	105.
37.9	99.4	10727.5	250.0	-49.4	99.9	210.7	8.9	3.1	8.1	332.7	999.9	99.9	999.9	9.4	96.
40.7	104.6	11412.8	225.0	-52.9	99.9	256.6	9.4	4.8	1.8	337.5	999.9	99.9	999.9	10.4	91.
43.5	110.4	12164.7	200.0	-57.5	99.9	248.0	7.6	7.4	3.0	341.7	999.9	99.9	999.9	11.6	91.
46.7	116.3	13005.7	175.0	-60.9	99.9	271.7	8.0	7.4	-0.4	350.4	999.9	99.9	999.9	13.1	87.
50.0	123.3	13965.5	150.0	-60.2	99.9	321.1	14.6	14.6	-10.5	366.4	999.9	99.9	999.9	16.1	95.
54.2	130.5	15101.1	125.0	-61.7	99.9	315.5	13.5	8.5	-5.0	383.4	999.9	99.9	999.9	17.7	100.
59.1	138.0	16472.7	100.0	-63.4	99.9	313.0	7.0	4.9	-3.5	405.2	999.9	99.9	999.9	19.4	103.
65.7	145.7	18227.3	75.0	-64.8	99.9	9.1	5.2	3.8	-3.7	437.1	999.9	99.9	999.9	20.8	105.
76.7	153.7	20753.3	50.0	-57.0	99.9	59.3	3.7	-0.6	-2.6	509.1	999.9	99.9	999.9	18.7	110.
89.1	162.0	25184.4	25.0	-52.3	99.9	71.5	5.1	-4.4	-2.2	634.3	999.9	99.9	999.9	15.1	121.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 349
MONETT, MISSOURI

29 MAY 1977
2100 GMT

155 14. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	10.1	438.0	958.0	22.7	15.5	180.0	1.5	0.0	1.5	299.5	330.7	11.7	64.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	10.8	511.5	950.0	24.3	14.8	257.9	5.9	5.8	1.2	301.8	332.3	11.3	55.9	0.2	3.
1.1	13.1	745.2	925.0	23.4	13.4	250.7	4.7	4.4	1.5	303.5	332.3	10.6	52.8	0.3	83.
2.0	15.5	996.0	900.0	21.5	12.2	213.2	4.9	2.7	4.1	303.6	331.0	10.0	55.5	0.5	44.
3.0	18.0	1227.5	875.0	19.4	10.9	197.9	5.0	1.5	4.8	304.0	329.9	9.5	56.0	0.8	38.
3.8	20.5	1476.3	850.0	16.9	10.8	188.8	4.5	0.7	4.4	303.5	330.2	9.6	67.4	1.1	32.
4.9	23.0	1730.1	825.0	14.2	10.2	192.4	5.3	1.1	5.2	303.6	329.8	9.6	77.0	1.3	27.
5.7	25.6	1990.3	800.0	13.5	4.4	209.0	4.8	2.3	4.2	305.5	324.3	6.7	54.7	1.6	25.
6.6	28.1	2254.5	775.0	11.3	1.1	234.1	3.7	3.0	2.2	305.9	321.3	5.4	49.5	1.8	27.
7.7	30.9	2539.6	750.0	9.3	0.8	262.5	4.0	4.0	0.5	306.7	322.2	5.4	55.5	2.0	31.
8.8	33.7	2810.0	725.0	7.6	-1.3	267.2	6.2	6.2	0.3	307.8	321.7	4.8	53.2	2.2	39.
9.7	36.1	3099.6	700.0	6.7	-2.5	279.9	7.7	7.6	-1.3	309.5	322.8	4.5	53.0	2.5	47.
10.9	39.0	3395.7	675.0	3.9	-6.5	287.0	9.3	7.9	-2.4	310.0	318.9	3.0	48.0	2.8	57.
12.0	41.7	3701.0	650.0	1.3	-10.8	284.5	9.7	9.4	-2.4	310.4	316.3	2.6	40.1	3.2	64.
13.3	44.8	4015.2	625.0	-0.5	-26.9	294.5	9.7	8.9	-4.0	311.6	313.8	0.7	11.8	3.8	73.
14.3	47.8	4340.0	600.0	-2.7	-34.4	303.1	8.1	6.8	-4.4	313.0	314.1	0.3	6.6	4.2	78.
15.4	50.7	4674.3	575.0	-4.3	-44.9	300.3	9.1	7.8	-4.6	314.9	315.4	0.1	2.5	4.6	83.
16.7	53.9	5024.7	550.0	-6.9	-44.8	292.5	11.5	10.7	-4.4	315.9	316.3	0.1	3.0	5.2	88.
17.8	56.9	5385.9	525.0	-9.6	-49.0	285.1	11.2	10.8	-2.9	316.9	317.2	0.1	2.3	6.0	90.
19.1	60.1	5761.1	500.0	-11.6	-52.4	280.7	9.6	9.5	-1.8	318.9	319.1	0.1	1.8	6.8	92.
20.5	63.6	6152.3	475.0	-14.1	-51.7	276.5	8.5	8.5	-1.0	320.6	320.8	0.1	2.5	7.5	92.
21.9	66.9	6560.5	450.0	-16.4	-50.7	285.4	8.4	8.1	-2.2	322.7	323.0	0.1	3.4	8.2	93.
23.4	70.4	6989.0	425.0	-19.6	-52.3	294.5	11.8	10.7	-4.9	323.9	324.1	0.1	3.6	9.0	95.
25.0	74.0	7434.2	400.0	-23.7	-52.5	290.9	14.0	13.1	-5.0	324.2	324.4	0.1	5.0	10.2	97.
26.5	79.0	7907.0	375.0	-29.0	-52.7	285.4	13.7	13.2	-3.6	324.5	324.8	0.1	7.3	11.6	98.
28.3	81.9	8397.7	350.0	-32.1	-53.4	279.0	12.3	12.2	-1.7	325.5	325.8	0.1	9.9	13.0	99.
29.3	85.8	8911.9	325.0	-36.4	-55.7	250.8	11.2	10.5	3.7	326.5	326.8	0.1	11.5	14.3	98.
32.1	90.0	9452.4	300.0	-39.8	99.9	201.9	12.7	4.7	11.7	329.3	999.9	99.9	999.9	15.8	95.
34.2	94.7	10051.9	275.0	-44.2	99.9	189.2	14.1	2.3	13.9	331.2	999.9	99.9	999.9	15.2	88.
36.1	99.3	10683.7	253.0	-49.3	99.9	216.3	12.2	7.2	9.9	332.7	999.9	99.9	999.9	15.9	83.
38.6	104.3	11359.2	225.0	-52.6	99.9	225.7	11.6	8.4	8.2	337.9	999.9	99.9	999.9	17.3	80.
41.3	110.0	12172.9	200.0	-57.2	99.9	212.4	13.9	7.4	11.7	342.2	999.9	99.9	999.9	18.8	75.
44.1	115.6	12961.9	175.0	-59.3	99.9	257.7	14.9	14.5	3.2	352.0	999.9	99.9	999.9	20.9	72.
47.4	122.3	13928.6	150.0	-59.2	99.9	301.0	13.5	11.6	-7.0	368.2	999.9	99.9	999.9	23.2	76.
50.9	129.0	15067.7	125.0	-60.6	99.9	295.7	7.8	7.1	-3.4	385.2	999.9	99.9	999.9	24.8	80.
55.3	135.7	16447.5	100.0	-62.3	99.9	309.8	3.7	3.0	-2.2	407.3	999.9	99.9	999.9	26.0	82.
61.0	144.0	18213.1	75.0	-63.3	99.9	35.7	2.6	-1.5	-2.1	440.2	999.9	99.9	999.9	26.2	83.
69.3	152.3	20751.7	50.0	-58.6	99.9	65.1	5.0	-4.5	-2.1	505.4	999.9	99.9	999.9	24.8	85.
82.1	160.3	25193.8	25.0	-51.0	99.9	85.1	8.1	-8.0	-0.7	638.6	999.9	99.9	999.9	19.1	88.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 353
OKLAHOMA CITY, OKLAHOMA

25 MAY 1977
2200 GMT

146 14. 0

TIME MIN	CNTGT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	0.2	399.0	960.0	23.7	20.1	140.0	5.1	-3.3	3.9	299.9	341.1	15.6	82.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	10.1	487.6	950.0	24.2	99.9	154.6	11.4	-4.5	10.5	301.8	999.9	99.9	999.9	0.3	326.
1.1	12.0	717.0	925.0	23.3	18.5	163.1	11.9	-3.4	11.3	303.2	342.6	14.7	74.4	0.7	334.
2.0	14.1	944.5	900.0	21.7	17.6	171.7	12.7	-1.9	12.5	303.9	342.2	14.2	77.2	1.4	341.
3.0	16.1	1171.2	875.0	20.0	16.7	181.4	13.1	0.3	13.1	304.5	341.9	13.8	81.4	2.2	345.
4.0	18.4	1451.2	850.0	17.7	15.5	196.4	12.9	3.7	12.4	304.7	340.3	13.1	86.8	2.9	352.
4.8	20.5	1700.7	825.0	15.9	13.5	210.7	10.4	5.3	8.9	305.4	338.0	12.0	86.1	3.4	357.
5.8	22.7	1944.1	800.0	14.6	8.9	232.2	8.2	6.5	5.0	306.7	331.9	9.0	69.0	3.8	2.
6.7	25.1	2214.5	775.0	13.5	4.4	253.8	9.3	8.9	2.6	308.4	327.7	6.8	53.8	4.0	6.
7.7	27.1	2511.8	750.0	11.6	0.6	256.3	12.3	12.0	2.9	309.2	324.7	5.4	46.8	4.3	10.
8.6	29.7	2794.7	725.0	9.0	-1.3	253.7	13.4	12.9	3.7	310.4	324.5	4.8	45.5	4.7	23.
9.5	32.2	3085.0	700.0	7.5	-2.6	257.3	12.0	11.7	2.6	310.8	324.1	4.5	46.5	5.2	30.
10.4	34.9	3383.1	675.0	4.4	-4.3	254.9	11.7	11.3	3.0	310.6	322.8	4.1	53.2	5.7	35.
11.4	37.1	3680.2	650.0	2.2	-7.1	253.0	11.2	10.9	2.7	311.5	321.8	3.5	50.1	6.3	39.
12.3	39.8	4007.9	625.0	-1.2	-11.3	251.7	11.0	10.8	1.6	311.0	318.5	2.5	44.5	6.9	44.
13.2	42.7	4330.0	600.0	-0.3	-17.7	255.2	12.1	11.7	3.1	315.2	320.2	1.6	26.3	7.7	46.
14.1	45.1	4644.2	575.0	-3.2	-12.5	257.1	14.1	13.8	3.1	316.2	324.1	2.5	46.7	8.6	51.
14.9	48.0	5019.4	550.0	-4.6	-19.8	259.6	15.6	15.3	3.1	318.7	323.3	1.4	29.0	9.7	54.
15.2	50.8	5337.6	525.0	-7.1	-23.7	264.9	15.0	14.9	1.3	319.9	323.5	1.1	25.2	10.7	57.
15.4	53.8	5741.7	500.0	-10.4	-25.5	271.2	14.4	14.4	-0.3	320.4	323.6	1.0	27.5	11.6	60.
15.8	55.7	6154.3	475.0	-13.4	-28.9	275.8	15.2	15.2	-1.5	321.4	323.9	0.7	25.8	12.7	63.
16.1	58.9	6567.7	450.0	-16.3	-31.0	285.6	19.3	18.6	-5.2	322.7	324.9	0.5	26.7	13.8	66.
16.4	62.7	6990.2	425.0	-19.9	-33.1	288.0	22.1	21.0	-6.6	323.5	325.4	0.4	29.4	15.5	72.
16.4	66.6	7437.2	400.0	-23.0	-37.0	285.9	21.0	20.2	-5.7	325.2	326.6	0.4	26.1	17.2	76.
16.1	70.1	7835.9	375.0	-27.5	-40.7	283.3	19.9	19.6	-3.9	325.2	326.2	0.3	26.9	18.9	79.
15.8	73.7	8250.3	350.0	-31.5	-43.2	281.7	23.7	22.1	-8.6	326.3	327.2	0.2	30.1	20.8	82.
15.7	77.6	8678.7	325.0	-36.0	-46.9	282.3	26.9	24.9	-10.2	327.1	327.8	0.2	31.0	23.4	86.
15.5	81.5	9148.8	300.0	-40.5	99.9	281.7	29.6	27.5	-10.9	328.3	999.9	99.9	999.9	26.4	89.
14.8	85.7	10056.3	275.0	-45.9	99.9	282.1	32.5	30.1	-12.2	328.8	999.9	99.9	999.9	30.3	92.
13.9	90.2	10487.6	250.0	-50.2	99.9	283.5	33.0	30.3	-13.2	331.4	999.9	99.9	999.9	34.7	95.
13.7	95.2	11347.2	225.0	-52.2	99.9	281.9	27.7	27.1	-5.7	335.6	999.9	99.9	999.9	38.9	97.
13.3	100.2	12121.0	200.0	-55.2	99.9	279.4	29.1	29.1	-1.2	343.1	999.9	99.9	999.9	43.3	98.
12.7	105.8	12945.6	175.0	-56.2	99.9	277.6	14.7	14.6	-2.6	352.9	999.9	99.9	999.9	48.2	98.
12.4	112.0	13838.4	150.0	-56.4	99.9	281.0	21.1	20.7	-4.0	367.7	999.9	99.9	999.9	52.4	98.
12.4	118.7	14853.6	125.0	-63.6	99.9	318.6	13.5	8.9	-10.1	379.9	999.9	99.9	999.9	56.6	97.
12.7	124.0	15637.5	100.0	-63.2	99.9	316.4	3.9	2.7	-2.8	405.7	999.9	99.9	999.9	58.1	98.
14.0	124.5	15791.3	75.0	-65.0	99.9	180.2	1.5	0.2	1.5	436.8	999.9	99.9	999.9	58.5	98.
12.4	122.3	20701.5	50.0	-58.9	99.9	58.4	6.4	-5.4	-3.3	504.8	999.9	99.9	999.9	57.6	99.
14.1	150.5	25141.8	25.0	-61.2	99.9	64.7	6.6	-6.0	-2.8	638.2	999.9	99.9	999.9	61.9	102.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
+ BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
++ BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 363
AMARILLO, TEXAS

28 MAY 1977
200 GMT

154 12. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.5	1094.0	983.4	21.1	6.7	200.0	4.2	1.4	3.9	305.0	328.8	6.6	48.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	900.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	17.1	1167.8	875.0	25.9	3.1	213.8	10.4	5.8	8.6	310.7	326.7	5.5	22.9	0.3	26.
1.3	19.7	1422.0	850.0	24.4	1.0	217.6	11.5	7.0	9.1	311.7	326.0	4.9	21.6	0.8	32.
2.3	21.9	1681.9	825.0	22.4	-0.2	220.2	12.8	8.2	9.7	312.3	325.9	4.6	22.3	1.5	36.
3.3	24.4	1947.7	800.0	19.7	-1.4	222.2	11.9	9.0	8.8	312.1	325.0	4.3	24.0	2.3	37.
4.2	26.7	2219.4	775.0	16.8	-3.4	225.4	11.6	9.3	8.1	311.9	323.3	3.8	24.8	2.9	39.
5.3	29.3	2497.4	750.0	14.2	-5.2	228.4	11.8	8.8	7.8	312.0	322.4	3.5	25.7	3.7	40.
6.4	31.9	2781.9	725.0	11.7	-5.9	237.9	11.3	9.5	6.0	312.3	322.5	3.4	28.7	4.4	42.
7.4	34.6	3074.0	700.0	9.1	-7.6	254.1	10.6	10.2	2.9	312.6	322.0	3.1	29.7	5.0	45.
8.5	37.1	3373.7	675.0	6.5	-9.6	262.6	10.0	9.9	1.3	313.0	322.0	3.0	32.9	5.6	49.
9.6	39.9	3681.7	650.0	3.6	-9.8	262.9	11.5	11.4	1.4	313.0	321.7	2.9	37.6	6.2	53.
10.7	42.6	3995.1	625.0	0.6	-11.4	263.6	11.9	11.8	1.3	313.2	321.1	2.6	40.1	6.9	56.
11.9	45.5	4318.1	600.0	-0.4	-20.6	257.6	11.1	10.8	2.4	315.7	319.7	1.2	20.0	7.6	59.
13.1	48.5	4644.7	575.0	-2.1	-23.9	265.9	10.9	10.8	0.8	317.5	320.7	1.0	16.8	8.4	60.
14.3	51.3	5016.7	550.0	-3.8	-26.4	281.9	12.0	12.7	-2.7	319.6	322.3	0.8	15.2	9.1	64.
15.8	54.5	5387.3	525.0	-6.3	-26.9	279.4	15.3	15.1	-2.5	320.9	323.6	0.8	17.6	10.0	68.
17.2	57.4	5762.0	500.0	-9.0	-28.0	277.0	18.3	18.2	-2.2	322.1	324.7	0.9	19.5	11.4	72.
19.6	60.9	6146.4	475.0	-12.3	-30.1	280.5	20.5	20.1	-3.8	322.8	325.0	0.7	20.8	12.9	75.
20.7	64.4	6536.0	450.0	-15.7	-32.5	283.3	22.0	21.4	-5.1	323.6	325.4	0.5	21.1	14.7	78.
21.9	67.9	6935.2	425.0	-18.9	-35.4	285.9	21.4	20.6	-5.9	324.7	326.3	0.4	21.7	16.7	82.
23.6	71.7	7343.3	400.0	-22.7	-38.5	286.7	22.4	21.4	-6.4	325.5	326.7	0.3	22.0	18.7	85.
25.4	75.1	7811.4	375.0	-26.2	-40.9	286.8	24.6	23.6	-7.1	326.9	327.9	0.3	23.4	21.0	87.
27.2	79.2	8268.1	350.0	-30.8	-44.6	288.1	25.6	25.2	-4.3	327.3	328.0	0.2	24.0	23.7	90.
29.4	83.2	8730.1	325.0	-34.9	-48.0	287.8	26.3	25.6	-5.8	328.7	329.2	0.1	24.6	27.1	92.
31.8	87.5	9202.8	300.0	-39.4	99.9	281.5	26.9	26.3	-5.4	329.9	999.9	99.9	999.9	30.7	93.
34.1	92.2	10077.4	275.0	-44.3	99.9	281.0	30.2	29.7	-5.8	331.0	999.9	99.9	999.9	34.7	94.
36.3	97.0	10703.8	250.0	-49.9	99.9	281.1	28.8	28.1	-6.5	331.8	999.9	99.9	999.9	38.7	95.
38.9	102.2	11334.1	225.0	-55.3	99.9	281.1	32.8	32.0	-7.5	333.8	999.9	99.9	999.9	43.3	96.
41.5	108.0	12110.9	200.0	-58.4	99.9	281.4	31.6	30.7	-7.3	340.3	999.9	99.9	999.9	48.4	96.
44.3	114.0	12955.8	175.0	-59.6	99.9	277.7	30.0	29.7	-4.0	351.5	999.9	99.9	999.9	53.5	97.
48.0	120.7	13937.0	150.0	-58.8	99.9	268.7	24.2	24.2	0.6	368.7	999.9	99.9	999.9	60.0	97.
52.6	129.3	15060.9	125.0	-58.9	99.9	276.2	20.2	20.0	-2.2	388.3	999.9	99.9	999.9	65.2	96.
56.7	135.3	16452.1	100.0	-65.8	99.9	278.0	10.2	10.1	-1.4	400.6	999.9	99.9	999.9	68.7	96.
62.8	139.0	18205.8	75.0	-65.7	99.9	265.4	6.2	6.2	0.5	435.2	999.9	99.9	999.9	69.4	96.
70.8	154.5	20724.5	50.0	-60.1	99.9	46.6	6.1	-4.4	-4.2	502.0	999.9	99.9	999.9	68.2	97.
84.1	164.3	25143.4	25.0	-49.7	99.9	999.9	999.9	99.9	99.9	642.1	999.9	99.9	999.9	62.6	99.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 4 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 433
SALEM, ILLINOIS

28 MAY 1977
215 GMT

162 12. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.7	175.0	997.0	23.3	14.6	220.0	1.6	1.0	1.2	297.6	325.9	10.7	58.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	4.7	299.2	975.0	27.0	15.0	999.9	999.9	99.9	99.9	302.4	332.4	11.1	47.8	999.9	999.
1.2	10.4	512.8	950.0	25.8	13.4	999.9	999.9	99.9	99.9	303.4	331.4	10.3	46.4	999.9	999.
2.2	12.7	744.9	925.0	23.7	12.4	999.9	999.9	99.9	99.9	303.5	330.6	9.9	46.3	0.6	348.
3.1	14.9	985.6	900.0	21.5	11.5	178.9	3.7	-0.1	3.7	303.6	329.7	9.5	53.0	0.8	349.
4.0	14.9	1229.1	875.0	18.9	10.4	174.3	4.5	-0.3	4.5	303.4	328.5	9.1	57.8	1.0	352.
5.0	19.2	1477.5	850.0	16.6	10.2	168.9	4.2	-0.8	4.1	303.5	328.9	9.3	66.1	1.3	352.
6.0	21.3	1731.3	825.0	14.2	9.7	161.5	4.9	-1.6	4.7	303.6	328.9	9.2	76.5	1.5	350.
7.1	23.5	1990.8	800.0	12.2	7.0	163.5	5.4	-1.5	5.2	304.2	326.2	7.9	70.6	1.9	349.
8.2	25.9	2256.2	775.0	10.4	3.2	166.8	4.6	-1.1	4.5	305.0	322.6	6.3	61.1	2.2	348.
9.3	28.7	2528.7	750.0	8.5	-0.5	187.9	4.3	0.6	4.9	305.9	320.1	5.0	53.1	2.5	350.
10.5	30.9	2807.9	725.0	6.8	-21.4	189.6	3.7	1.1	3.5	306.8	318.2	1.0	12.2	2.9	353.
11.7	33.4	3095.9	700.0	6.4	-35.3	173.3	1.8	-0.2	1.8	309.6	318.6	0.3	3.1	3.0	354.
12.9	35.9	3391.0	675.0	5.3	-42.8	146.6	2.5	-1.1	2.0	311.5	318.0	0.1	1.5	3.1	353.
14.1	38.6	3700.6	650.0	4.5	-40.1	162.2	3.8	-1.2	3.7	314.0	314.7	0.2	2.2	3.4	352.
15.5	41.1	4018.1	625.0	1.6	-22.1	157.6	5.7	-2.2	3.7	314.0	317.7	1.0	15.1	3.8	351.
16.9	44.0	4345.5	600.0	-0.6	-30.1	153.7	5.5	-2.4	5.3	314.8	317.2	0.5	8.5	4.2	349.
18.2	46.9	4683.7	575.0	-3.3	-25.8	163.4	5.6	-1.6	4.9	315.5	318.8	0.5	15.6	4.6	348.
19.7	50.0	5034.6	550.0	-4.3	-34.5	161.5	5.7	-1.8	5.4	316.1	320.3	0.4	7.3	5.1	348.
21.0	52.9	5399.1	525.0	-7.2	-34.9	179.6	5.0	-0.0	5.4	319.0	321.1	0.4	8.7	5.5	347.
22.9	55.7	5777.3	500.0	-10.1	-35.7	184.9	6.0	0.5	5.0	319.8	322.0	0.4	10.2	6.0	349.
23.9	59.0	6169.4	475.0	-13.7	-36.8	179.6	6.1	-0.0	5.9	320.7	322.2	0.3	12.2	6.5	350.
25.4	62.3	6579.1	450.0	-16.6	-39.5	181.4	5.9	0.1	6.1	321.0	323.4	0.3	12.9	7.1	351.
27.9	65.9	7005.4	425.0	-19.4	-42.8	183.9	5.8	-1.6	5.9	322.3	324.9	0.2	10.4	7.7	351.
29.1	69.3	7453.2	400.0	-22.8	-44.1	184.3	5.9	-1.6	5.6	324.2	326.0	0.2	12.3	8.3	350.
31.0	73.0	7922.6	375.0	-26.8	-30.7	173.2	6.3	-0.7	5.7	325.3	328.8	0.8	66.7	9.0	350.
33.0	77.0	8416.7	350.0	-30.8	-37.3	178.7	7.8	-0.2	6.2	326.1	328.8	0.4	82.3	9.8	351.
34.9	80.9	8937.9	325.0	-34.9	-41.8	175.9	7.5	-0.5	7.8	327.2	329.8	0.3	48.6	10.8	351.
37.3	85.3	9490.9	300.0	-39.6	99.9	187.5	8.1	1.1	7.5	328.4	999.9	99.9	999.9	11.8	352.
39.6	89.7	10079.2	275.0	-44.9	99.9	189.9	9.2	1.6	8.0	329.6	999.9	99.9	999.9	12.9	354.
42.2	94.9	10709.3	250.0	-49.9	99.9	203.3	10.8	4.3	9.1	330.8	999.9	99.9	999.9	14.4	356.
44.7	99.9	11391.3	225.0	-54.4	99.9	244.6	7.5	6.7	3.9	331.9	999.9	99.9	999.9	15.5	360.
47.4	105.3	12126.9	200.0	-60.0	99.9	284.3	7.7	7.5	3.2	335.2	999.9	99.9	999.9	15.5	3.
50.7	111.3	12924.8	175.0	-63.3	99.9	317.6	5.1	3.4	-1.9	337.8	999.9	99.9	999.9	14.9	9.
54.5	119.0	13815.4	150.0	-60.2	99.9	269.1	5.1	5.1	-3.7	345.6	999.9	99.9	999.9	14.8	11.
58.7	125.7	15051.4	125.0	-61.0	99.9	309.2	4.3	3.3	0.1	366.3	999.9	99.9	999.9	14.4	16.
63.7	134.0	16434.0	100.0	-61.0	99.9	333.0	3.1	1.5	-2.7	384.5	999.9	99.9	999.9	13.8	17.
70.5	143.0	18210.5	75.0	-60.5	99.9	310.6	2.5	1.9	-2.9	410.8	999.9	99.9	999.9	12.6	15.
79.1	152.7	20737.0	50.0	-57.4	99.9	75.5	7.5	-7.3	-1.6	445.9	999.9	99.9	999.9	11.3	4.
93.5	163.0	25174.3	25.0	-53.8	99.9	999.9	999.9	99.9	-1.9	508.4	999.9	99.9	999.9	11.2	338.
									99.9	630.1					

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 451
DODGE CITY, KANSAS

28 MAY 1977
239 GMT

183 T. O

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	13.2	791.0	916.2	20.0	15.0	160.0	3.1	-1.1	2.9	300.4	332.3	11.8	73.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	14.7	944.2	900.0	22.2	16.0	999.9	999.9	99.9	99.9	304.4	339.2	12.5	67.5	999.9	999.
1.4	16.8	1191.4	875.0	20.9	14.7	999.9	999.9	99.9	99.9	305.6	338.8	12.2	67.8	999.9	999.
2.4	19.2	1441.8	850.0	18.4	13.6	202.7	5.6	2.2	5.2	305.4	337.2	11.6	73.6	1.2	355.
3.5	21.4	1687.8	825.0	16.8	10.3	220.0	6.1	3.9	4.7	306.3	333.1	9.6	65.3	1.4	2.
4.4	23.8	1959.5	800.0	14.7	4.3	247.7	8.2	7.7	2.3	306.5	325.5	6.6	49.9	1.7	11.
5.4	25.0	2227.2	775.0	13.0	-5.9	277.7	6.2	6.1	-0.8	307.8	317.2	3.2	26.3	1.8	24.
6.6	29.5	2531.7	750.0	11.3	-7.6	284.1	8.2	8.0	-2.0	308.8	317.5	2.9	25.9	1.9	36.
7.9	31.2	2789.5	725.0	8.9	-4.7	268.1	11.5	11.5	0.4	309.2	320.2	3.7	37.8	2.3	51.
8.9	33.5	3072.7	700.0	6.5	-4.8	259.0	13.9	13.7	2.7	309.5	321.0	3.9	44.4	3.1	59.
10.1	36.2	3370.0	675.0	4.4	-6.6	263.1	16.0	15.9	1.9	310.6	321.0	3.5	44.5	4.1	68.
11.7	39.0	3675.8	650.0	1.5	-7.9	266.0	17.8	17.8	1.3	310.7	320.4	3.2	46.5	5.3	69.
12.7	41.6	3990.4	625.0	-1.1	-8.7	270.3	17.7	17.7	-0.1	311.4	320.7	3.2	56.5	6.4	72.
13.6	44.4	4314.3	600.0	-4.1	-10.5	279.1	19.7	19.4	-3.1	311.4	320.1	2.9	61.2	7.6	76.
14.7	47.4	4649.6	575.0	-6.8	-13.7	284.1	20.5	19.8	-5.0	312.0	319.1	2.3	57.8	8.9	80.
15.9	50.4	4994.5	550.0	-8.3	-25.5	276.3	19.3	19.2	-2.1	314.1	317.7	1.0	28.8	10.3	83.
17.0	53.4	5355.2	525.0	-9.2	-37.6	270.4	17.0	17.0	-0.1	317.4	318.4	0.3	7.8	11.5	84.
18.4	56.4	5730.4	500.0	-12.0	-34.7	282.6	19.1	18.7	-4.2	318.6	319.8	0.4	13.0	12.8	85.
19.8	59.6	6121.4	475.0	-13.5	-37.7	284.1	21.1	21.4	-5.9	320.9	322.0	0.3	11.2	14.7	88.
21.7	63.0	6530.5	450.0	-16.3	-39.4	275.5	24.4	24.3	-2.4	322.9	323.8	0.3	11.4	17.3	90.
23.2	66.4	6959.3	425.0	-19.6	-47.6	277.3	21.3	21.1	-2.7	323.9	324.5	0.2	9.7	19.5	90.
24.9	70.0	7404.8	400.0	-23.4	-45.4	286.0	22.3	21.4	-6.1	324.5	325.1	0.2	11.1	21.5	92.
26.6	73.5	7873.4	375.0	-27.4	-47.5	285.3	25.2	24.3	-6.7	325.3	325.8	0.1	12.6	23.8	93.
28.3	77.5	8364.0	350.0	-31.7	-48.5	283.0	29.1	27.4	-9.3	326.0	326.5	0.1	16.9	26.5	94.
30.0	81.6	8885.1	325.0	-36.0	-50.3	280.8	30.5	30.0	-5.7	327.0	327.5	0.1	21.2	29.6	95.
32.0	85.7	9434.1	300.0	-40.9	99.9	282.4	36.2	33.4	-7.3	327.7	999.9	99.9	999.9	33.2	96.
34.1	90.2	10021.3	275.0	-45.3	99.9	284.1	38.5	37.3	-9.4	329.6	999.9	99.9	999.9	38.3	97.
37.0	95.1	10651.6	250.0	-49.4	99.9	284.2	38.3	38.3	-11.9	332.6	999.9	99.9	999.9	44.6	98.
39.4	100.0	11335.3	225.0	-53.7	99.9	281.7	28.3	26.3	-10.5	336.2	999.9	99.9	999.9	49.2	99.
42.2	105.5	12094.6	200.0	-56.8	99.9	277.1	30.1	29.9	-3.7	342.8	999.9	99.9	999.9	53.9	100.
45.2	111.9	12933.7	175.0	-54.7	99.9	249.2	22.2	22.2	0.7	359.6	999.9	99.9	999.9	59.2	99.
48.9	117.8	13820.7	150.0	-58.7	99.9	255.5	15.5	15.0	3.9	372.4	999.9	99.9	999.9	62.5	98.
52.9	125.0	15042.1	125.0	-61.4	99.9	256.3	13.5	13.2	3.2	383.9	999.9	99.9	999.9	65.8	97.
57.5	133.0	16441.8	100.0	-63.8	99.9	193.1	7.4	1.7	7.2	404.4	999.9	99.9	999.9	67.8	96.
63.8	141.0	18214.9	75.0	-63.2	99.9	144.8	2.3	-0.6	2.2	440.3	999.9	99.9	999.9	68.5	95.
71.9	149.7	20223.6	50.0	-60.3	99.9	88.0	6.4	-6.4	-0.4	501.5	999.9	99.9	999.9	67.1	95.
84.7	158.7	25121.1	25.0	-54.2	99.9	92.2	6.5	-6.5	-0.9	629.3	999.9	99.9	999.9	62.2	96.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 456
TOPEKA, KANSAS

28 MAY 1977
2000 GMT

151 17. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GP/KG	RH PCT	RANGE KM	AZ DG
0.0	0.4	249.0	975.5	22.9	19.2	150.0	2.6	-1.3	2.3	299.1	336.2	14.5	80.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.0	0.4	272.5	975.0	23.0	19.1	153.7	2.6	-1.2	2.4	299.3	336.3	14.5	79.0	0.0	346.
1.0	10.7	500.7	950.0	23.9	15.7	192.9	4.3	1.0	4.2	301.5	333.6	12.0	60.3	0.4	177.
1.9	13.0	717.5	925.0	21.7	14.1	204.3	4.9	2.0	4.5	301.5	331.3	11.1	62.2	0.1	138.
2.8	15.9	971.2	900.0	19.9	14.0	249.7	4.6	4.1	1.6	301.9	332.3	11.3	65.2	0.2	76.
3.7	17.6	1217.8	875.0	17.7	13.5	240.5	10.0	8.7	5.0	302.2	332.6	11.3	76.7	0.6	93.
4.7	20.1	1461.3	850.0	15.4	12.4	194.9	10.2	4.5	17.7	302.3	331.4	10.7	82.0	1.3	39.
5.7	22.4	1714.3	825.0	13.9	11.3	189.2	11.4	-3.3	11.0	302.6	330.6	10.3	88.1	2.0	33.
6.6	24.9	1977.0	800.0	11.5	9.8	202.3	10.4	3.9	9.6	303.4	329.7	9.6	89.2	2.4	19.
7.5	27.2	2234.4	775.0	9.5	8.1	227.7	10.5	7.8	7.1	304.0	328.3	8.8	91.1	2.9	24.
8.5	29.9	2510.0	750.0	6.9	5.7	236.2	10.7	8.9	6.0	304.1	325.6	7.7	91.9	3.5	29.
9.4	32.5	2799.0	725.0	7.3	-8.5	247.4	11.9	11.0	4.6	307.5	316.0	2.8	32.3	4.3	36.
11.1	35.7	3077.0	700.0	5.9	-13.3	250.5	12.1	11.4	4.0	309.0	315.0	2.0	23.7	5.0	41.
12.3	37.9	3373.2	675.0	3.1	-14.5	247.5	13.1	12.1	5.0	309.1	314.8	1.9	25.9	5.9	46.
13.7	40.6	3677.7	650.0	0.3	-14.9	244.9	14.2	12.8	6.0	309.3	315.0	1.8	26.8	6.9	49.
15.0	43.4	3990.6	625.0	-2.0	-27.4	249.3	15.5	14.5	5.5	310.2	312.3	0.6	12.2	8.1	51.
16.3	44.7	4318.7	600.0	-3.4	-35.5	255.0	12.1	11.6	3.1	312.2	313.3	0.3	6.1	9.1	54.
17.7	49.8	454 .0	575.0	-6.1	-37.2	247.7	9.9	9.2	3.8	312.8	313.7	0.3	6.4	9.9	56.
19.1	52.3	4894.9	550.0	-8.9	-38.7	240.3	11.3	9.9	5.6	313.7	314.5	0.2	6.7	10.8	56.
20.5	55.3	5253.7	525.0	-11.1	-40.4	244.5	12.9	11.7	5.5	315.1	315.8	0.2	6.8	11.8	57.
22.1	58.4	5727.0	500.0	-12.6	-44.2	235.0	16.3	13.5	9.1	317.4	318.2	0.1	5.1	13.2	57.
23.7	61.7	6117.9	475.0	-14.5	-46.6	219.7	13.4	8.4	10.4	320.1	320.5	0.1	4.5	14.7	56.
25.4	65.1	6529.4	450.0	-17.8	-50.1	212.2	9.0	4.8	7.6	320.8	321.2	0.1	4.0	15.7	55.
27.1	68.4	6949.6	425.0	-21.1	-51.2	231.2	9.0	7.2	5.4	322.0	322.3	0.1	4.7	16.5	54.
29.0	71.6	7389.4	400.0	-25.1	-50.1	244.0	12.4	11.1	5.4	322.3	322.7	0.1	7.7	17.6	55.
30.9	75.5	7858.9	375.0	-29.1	-51.2	236.9	12.9	10.8	7.1	323.0	323.4	0.1	9.7	19.1	55.
32.7	79.4	8347.9	350.0	-33.3	-51.6	225.5	12.1	8.6	8.5	323.9	324.3	0.1	13.8	20.6	55.
34.9	83.2	8862.8	325.0	-38.2	99.9	214.4	12.4	7.0	10.3	324.3	999.9	99.9	999.9	22.1	54.
37.1	87.2	9409.5	300.0	-42.6	99.9	209.9	14.0	6.1	12.6	325.4	999.9	99.9	999.9	23.7	52.
39.6	91.5	9999.2	275.0	-46.7	99.9	189.2	16.6	2.4	16.4	324.2	999.9	99.9	999.9	25.5	46.
42.3	95.8	10623.4	250.0	-47.9	99.9	192.6	17.8	3.9	17.4	334.9	999.9	99.9	999.9	27.7	45.
45.0	100.4	11309.3	225.0	-52.9	99.9	198.9	14.6	4.7	13.8	337.4	999.9	99.9	999.9	30.1	43.
48.3	106.2	12043.0	200.0	-56.9	99.9	203.3	16.5	6.5	15.1	342.7	999.9	99.9	999.9	32.8	41.
51.4	111.5	12809.0	175.0	-56.9	99.9	240.6	14.4	12.5	7.0	356.1	999.9	99.9	999.9	35.7	40.
55.4	117.8	13687.4	150.0	-58.0	99.9	279.7	13.1	12.9	-2.2	370.2	999.9	99.9	999.9	38.2	44.
59.5	124.5	14629.8	125.0	-61.1	99.9	276.3	6.3	6.2	-0.7	384.4	999.9	99.9	999.9	39.3	47.
64.7	131.7	15615.1	100.0	-60.5	99.9	263.5	2.4	2.4	0.3	410.9	999.9	99.9	999.9	40.2	48.
71.2	139.3	16694.2	75.0	-63.2	99.9	285.8	2.3	2.2	-0.6	440.6	999.9	99.9	999.9	40.1	48.
80.6	147.3	20719.1	50.0	-57.8	99.9	64.4	7.6	-6.7	-3.2	507.3	999.9	99.9	999.9	38.2	47.
99.1	155.7	25143.8	25.0	-52.2	99.9	74.6	7.3	-7.0	-1.9	635.1	999.9	99.9	999.9	33.3	48.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 532
FORT A, ILLINOIS

28 MAY 1977
2?? GMT

156 17. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	WIND DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.1	200.0	998.5	25.0	2.6	180.0	2.6	0.0	2.6	299.5	319.5	7.3	36.0	0.0	0.
99.9	99.9	99.9	1000.0	19.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
5.1	7.8	295.4	975.0	24.9	5.3	180.0	99.9	99.9	99.9	302.2	319.5	6.2	27.2	999.9	999.
1.3	9.9	514.7	950.0	25.9	4.3	180.0	999.9	99.9	99.9	303.5	319.5	5.7	22.8	999.9	999.
2.2	11.9	767.9	925.0	24.2	3.1	999.9	999.9	99.9	99.9	304.1	319.1	5.3	25.8	999.9	999.
3.7	14.0	988.7	900.0	21.8	3.6	999.9	999.9	99.9	99.9	304.0	319.0	5.5	30.2	999.9	999.
4.3	15.9	1220.9	875.0	19.6	999.9	999.9	99.9	99.9	99.9	304.2	320.7	5.9	35.6	999.9	999.
5.3	18.1	1477.9	850.0	17.3	999.9	999.9	99.9	99.9	99.9	304.3	321.7	6.2	42.5	999.9	999.
6.2	20.4	1731.7	825.0	15.9	3.2	999.9	999.9	99.9	99.9	304.4	321.0	5.8	48.8	999.9	999.
7.3	22.5	1991.3	800.0	12.5	3.1	999.9	999.9	99.9	99.9	304.9	321.8	6.0	51.5	999.9	999.
8.4	24.9	2254.9	775.0	10.0	9.1	999.9	999.9	99.9	99.9	304.5	320.9	5.8	57.7	999.9	999.
9.4	27.0	2520.7	750.0	8.0	-6.1	140.4	8.2	-5.2	5.3	305.3	314.8	3.2	26.8	3.5	340.
10.5	29.5	2807.8	725.0	6.7	-14.4	154.4	7.1	-3.1	6.4	306.9	314.1	1.7	20.4	4.0	338.
11.4	32.1	3095.0	700.0	6.1	-25.5	164.0	7.2	-2.0	6.9	309.2	311.4	0.7	8.1	4.4	338.
12.9	34.7	3382.1	675.0	4.8	-26.3	165.3	7.9	-2.0	7.7	311.1	313.3	0.7	8.2	5.0	339.
14.1	37.1	3669.1	650.0	4.0	-27.5	177.4	7.9	-0.3	7.8	313.6	315.6	0.6	7.8	5.5	340.
15.2	39.8	4014.4	625.0	1.9	-26.3	197.1	8.3	2.6	8.5	314.7	317.1	0.7	10.1	6.1	342.
16.4	42.3	4344.2	600.0	-0.7	-21.9	200.3	8.6	3.1	9.0	315.3	318.9	1.1	18.3	6.6	346.
17.4	45.2	4683.4	575.0	-3.3	-24.1	189.5	9.0	1.9	9.0	316.1	319.2	0.9	18.2	7.2	349.
19.0	48.2	5039.4	550.0	-5.7	-27.1	175.3	10.1	-0.8	10.0	317.3	319.8	0.8	16.6	8.1	350.
20.4	51.0	5395.4	525.0	-7.7	-31.1	171.9	10.2	-1.5	10.6	319.1	321.0	0.5	13.3	8.9	350.
21.9	54.1	5773.0	500.0	-10.5	-33.3	170.5	9.8	-1.7	9.7	320.3	321.9	0.5	13.3	9.8	350.
23.4	57.1	6165.9	475.0	-13.0	-29.3	173.6	9.4	-1.7	9.5	321.9	324.4	0.7	23.9	10.6	350.
24.8	60.5	6575.4	450.0	-16.6	-34.9	170.5	9.4	-1.6	9.2	322.4	326.2	1.1	48.4	11.4	351.
26.1	64.0	7002.0	425.3	-20.3	-32.2	169.6	7.6	-1.6	7.5	322.9	327.9	1.5	64.8	12.2	350.
25.0	67.4	7444.5	400.0	-23.8	-24.9	178.2	7.0	-0.2	7.0	324.3	329.3	1.3	51.8	12.8	350.
23.9	70.9	7916.3	375.0	-27.4	-37.5	181.4	9.1	1.8	8.9	325.4	328.8	1.0	58.4	13.7	351.
31.8	74.5	8464.8	350.0	-31.2	-34.7	151.4	11.1	2.2	10.9	326.7	329.7	0.6	71.4	14.7	353.
33.5	78.9	8939.9	325.9	-35.2	-43.1	193.4	11.3	2.4	11.0	328.2	329.2	0.3	43.7	15.3	355.
35.7	83.0	9441.4	300.0	-40.4	99.9	184.0	12.8	0.9	12.8	328.4	999.9	99.9	999.9	17.9	358.
37.8	87.3	10044.9	275.0	-43.2	99.9	187.3	14.2	1.9	14.2	329.7	999.9	99.9	999.9	19.2	357.
40.1	92.2	10737.4	250.0	-50.2	99.9	193.7	12.0	3.1	11.6	331.4	999.9	99.9	999.9	21.0	358.
42.5	97.3	11378.3	225.0	-55.2	99.9	217.6	9.8	5.4	7.0	333.9	999.9	99.9	999.9	22.4	359.
44.9	102.5	12121.2	200.0	-59.9	99.9	248.8	4.9	4.8	0.1	337.9	999.9	99.9	999.9	22.8	1.
47.5	108.9	12950.2	175.0	-62.0	99.9	291.1	4.2	0.7	-4.2	347.7	999.9	99.9	999.9	22.2	3.
50.9	115.2	13904.7	150.0	-59.9	99.9	197.0	2.2	0.7	2.1	356.9	999.9	99.9	999.9	22.1	3.
54.1	122.3	15046.0	125.0	-60.7	99.9	327.5	3.8	2.0	-3.2	385.2	999.9	99.9	999.9	21.8	4.
59.2	130.7	16473.1	100.0	-61.1	99.9	19.4	4.4	-1.5	-4.2	409.6	999.9	99.9	999.9	21.0	4.
63.9	139.7	18218.1	75.0	-61.9	99.9	354.7	4.3	0.4	-4.2	443.2	999.9	99.9	999.9	20.7	1.
71.0	149.9	20753.3	50.0	-55.8	99.9	76.4	7.1	-6.9	-1.7	512.1	999.9	99.9	999.9	19.6	352.
87.1	159.0	25196.8	25.0	-53.7	99.9	95.0	12.4	-12.3	1.1	631.6	999.9	99.9	999.9	19.8	333.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 853
OMAHA, NEBRASKA

28 MAY 1977
2000 GMT

161 18. 6

TEMP MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	0.0	400.0	959.5	19.5	16.7	165.0	2.1	-0.5	2.0	296.1	329.2	12.6	84.0	0.0	0.
99.9	99.9	99.0	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.0	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	10.3	404.8	950.0	20.4	99.9	172.6	3.5	-0.5	3.5	297.9	999.9	99.9	999.9	0.1	350.
1.1	12.9	716.1	925.0	18.8	16.1	169.8	4.2	1.4	4.0	298.5	331.9	12.8	84.7	0.3	359.
2.0	15.0	951.5	900.0	17.7	14.1	219.9	6.7	4.3	5.1	299.8	330.2	11.4	79.4	0.5	18.
2.8	17.3	1187.0	875.0	16.9	12.9	227.5	8.4	6.2	5.7	301.3	329.6	10.5	75.6	0.9	29.
3.7	19.9	1419.9	850.0	15.3	11.1	224.6	8.9	6.3	6.4	301.9	328.8	9.9	77.6	1.3	36.
4.6	22.2	1652.8	825.0	13.8	9.1	213.6	8.9	6.9	7.6	303.2	327.6	8.9	73.0	1.8	37.
5.5	24.9	1882.1	800.0	12.1	6.9	205.1	8.8	5.7	7.9	304.1	325.8	7.5	67.4	2.3	35.
6.5	27.9	2117.0	775.0	10.3	4.9	204.4	9.1	3.8	8.3	304.9	324.7	7.1	69.1	2.9	33.
7.3	30.0	2350.1	750.0	8.1	4.1	209.2	10.3	4.4	9.3	305.4	325.0	7.0	76.7	3.3	31.
8.2	32.8	2579.3	725.0	5.5	3.6	209.6	9.1	4.2	7.6	305.5	325.1	7.0	88.4	3.8	31.
9.0	35.5	2806.2	700.0	4.4	-9.9	219.5	6.1	4.3	5.2	307.4	322.7	5.3	71.1	4.3	31.
10.4	38.4	3031.0	675.0	3.0	-4.1	231.1	8.0	6.2	5.0	309.0	320.9	4.0	57.0	4.3	33.
11.6	41.1	3254.5	650.0	0.6	-7.2	236.4	7.9	6.6	4.4	309.4	319.7	3.4	56.5	5.3	35.
12.9	44.1	3476.1	625.0	-2.0	-9.5	238.7	7.6	6.4	4.2	310.2	319.1	3.0	56.2	5.8	37.
14.1	47.3	3693.3	600.0	-4.5	-14.7	229.1	7.7	5.9	5.0	310.9	317.5	2.1	47.2	6.4	36.
15.3	50.4	3908.9	575.0	-5.2	-31.2	224.8	9.5	6.0	5.0	313.3	314.9	0.3	6.3	7.0	39.
16.5	53.5	4075.6	550.0	-7.6	-34.1	237.1	8.3	6.7	5.0	315.0	316.4	0.4	16.1	7.6	40.
17.9	56.6	4339.5	525.0	-10.3	-29.2	247.3	8.5	7.8	3.3	316.1	317.0	0.2	7.2	8.3	41.
19.3	60.1	4709.1	500.0	-13.8	-47.2	253.0	10.2	9.8	3.0	316.6	317.0	0.1	3.9	8.9	44.
20.6	63.6	4927.7	475.0	-16.7	-46.7	244.0	13.8	12.4	6.1	317.4	318.2	0.1	5.2	9.7	46.
22.0	67.0	5503.9	450.0	-18.3	-54.0	222.6	12.6	8.5	9.3	320.2	320.4	0.1	2.6	10.9	47.
23.5	70.7	5894.6	425.0	-21.2	-50.0	201.6	11.6	4.3	10.8	321.9	322.1	0.0	3.0	11.9	46.
25.2	74.6	6291.3	400.0	-24.4	-55.6	199.9	9.7	3.3	9.1	323.3	323.5	0.0	3.7	12.8	43.
26.8	78.7	6697.4	375.0	-28.7	-51.8	197.4	11.2	3.3	10.7	323.6	324.0	0.1	8.6	13.7	42.
28.6	82.7	7099.4	350.0	-32.8	-54.9	187.0	14.9	1.8	14.8	324.5	324.7	0.1	8.9	15.8	39.
30.1	86.8	7495.9	325.0	-36.1	-51.3	173.8	21.4	-2.3	21.2	327.0	327.4	0.1	19.2	16.4	35.
32.1	91.5	7897.5	300.0	-39.6	99.9	164.2	28.7	-7.8	27.6	329.5	999.9	99.9	999.9	18.6	25.
34.3	96.3	8297.3	275.0	-43.7	99.9	159.3	30.9	-10.9	28.8	331.9	999.9	99.9	999.9	21.2	21.
36.	101.0	10421.2	250.0	-48.3	99.9	155.9	30.5	-12.4	27.8	334.2	999.9	99.9	999.9	24.4	15.
39.4	106.4	11709.8	225.0	-52.2	99.9	154.2	29.8	-11.1	27.7	338.5	999.9	99.9	999.9	28.1	9.
41.5	112.	12068.7	200.0	-55.7	99.9	171.9	26.3	-3.7	26.0	345.2	999.9	99.9	999.9	32.0	5.
44.5	118.5	12912.1	175.	-56.1	99.9	205.5	16.4	7.1	14.8	356.1	999.9	99.9	999.9	35.8	5.
47.8	125.4	13995.4	150.0	-55.2	99.9	229.0	8.9	6.6	6.0	374.1	999.9	99.9	999.9	37.5	7.
51.5	132.7	15059.2	125.0	-57.4	99.9	244.7	5.1	4.6	2.2	390.8	999.9	99.9	999.9	38.5	9.
54.5	140.5	16455.	100.0	-57.8	99.9	204.2	3.7	1.5	3.3	416.1	999.9	99.9	999.9	39.3	10.
57.1	148.7	18240.0	75.0	-60.1	99.9	259.7	3.1	2.9	-1.0	443.2	999.9	99.9	999.9	39.3	9.
59.1	157.3	20795.9	50.0	-58.3	99.9	63.0	7.2	-6.4	3.3	510.8	999.9	99.9	999.9	38.4	7.
62.1	165.7	99234.4	25.0	-61.4	99.9	94.5	9.5	-9.5	0.7	637.3	999.9	99.9	999.9	37.5	358.

* RV SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* R, TEMP MEAN, TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
* RJ SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 562
NORTH PLATTE, NEBRASKA

28 MAY 1977
300 GMT

142 36. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG.	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.2	407.0	909.9	16.1	9.5	250.0	2.1	2.0	0.7	297.2	319.4	8.3	65.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	15.2	960.9	900.0	18.5	99.9	999.9	99.9	99.9	99.9	300.5	999.9	99.9	999.9	999.9	999.
1.1	17.3	1152.6	875.0	19.5	4.3	999.9	999.9	99.9	99.9	304.1	320.9	6.0	36.7	999.9	999.
2.0	19.8	1410.9	850.0	16.8	3.7	999.9	999.9	99.9	99.9	303.8	320.4	5.9	41.7	999.9	999.
2.9	22.0	1684.6	825.0	15.0	3.5	277.8	7.1	7.0	-1.0	304.4	321.3	6.0	46.1	0.9	117.
3.9	24.5	1944.1	800.0	12.6	2.7	259.5	7.6	7.5	1.4	304.5	321.1	5.9	51.2	1.2	108.
4.9	25.8	2209.8	775.0	10.6	1.9	243.1	8.0	7.1	3.6	305.2	321.4	5.7	54.6	1.7	97.
6.1	29.4	2482.2	750.0	8.1	1.0	228.9	6.7	5.1	4.4	305.4	321.0	5.5	60.7	2.1	87.
7.1	32.0	2761.0	725.0	5.4	-1.1	226.6	5.7	4.2	[illegible]	305.4	319.3	4.9	62.8	2.4	81.
8.3	34.7	3047.3	700.0	3.5	-3.4	239.1	5.4	4.7	[illegible]	306.4	318.7	4.2	60.3	2.7	77.
9.4	37.2	3342.2	675.0	1.9	-5.2	252.1	6.2	5.9	[illegible]	307.8	319.1	3.8	59.0	3.1	76.
10.4	40.0	3645.5	650.0	-0.6	-7.2	256.2	7.2	7.0	[illegible]	308.2	318.4	3.4	61.2	3.5	75.
11.5	42.4	3958.2	625.0	-2.8	-9.8	272.4	8.5	8.5	-0.3	309.3	318.0	2.9	58.5	4.0	76.
12.6	45.4	4280.3	600.0	-5.7	-12.2	291.9	9.2	8.5	-3.4	309.6	317.2	2.5	59.9	4.5	80.
13.7	48.3	4612.2	575.0	-9.1	-13.2	297.4	9.5	8.4	-4.4	309.3	316.6	2.4	71.8	5.0	84.
15.0	51.1	4956.1	550.0	-9.4	-25.4	290.6	10.9	10.1	-3.8	311.0	315.8	0.9	25.7	5.7	88.
16.3	54.3	5313.5	525.0	-12.7	-24.8	294.1	11.1	10.1	-4.[illegible]	313.2	316.3	1.0	35.6	6.5	91.
17.7	57.1	5684.5	500.0	-14.9	-27.7	296.9	11.4	10.2	[illegible]	315.0	317.6	0.8	32.2	7.4	94.
19.1	60.4	6070.2	475.0	-18.1	-24.5	290.7	10.0	9.3	-3.5	315.5	319.1	1.1	57.4	8.2	97.
20.1	63.7	6471.5	450.0	-21.5	-29.4	273.6	11.1	11.1	-0.7	316.2	318.9	0.8	52.4	8.9	97.
21.5	66.9	6890.1	425.0	-25.0	-33.7	258.4	11.9	11.6	2.4	316.9	318.7	0.5	43.8	9.8	96.
23.0	70.4	7329.6	400.0	-28.0	-36.7	254.9	11.2	10.9	2.9	319.6	320.0	0.4	43.0	10.8	94.
24.8	74.0	7789.7	375.0	-31.9	-40.5	250.3	11.7	11.0	3.9	319.5	320.5	0.3	41.6	11.9	92.
26.4	77.7	8272.1	350.0	-36.0	-46.7	243.2	10.9	9.7	4.9	320.3	320.8	0.2	31.7	13.0	90.
28.1	81.5	8782.2	325.0	-40.3	99.9	238.0	11.9	10.1	6.3	321.1	999.9	99.9	999.9	13.9	97.
29.9	85.6	9322.7	300.0	-45.1	99.9	246.8	14.0	12.9	5.5	321.8	999.9	99.9	999.9	15.2	85.
32.0	89.9	9894.0	275.0	-48.8	99.9	264.7	16.9	16.8	1.5	324.6	999.9	99.9	999.9	17.1	94.
34.3	94.4	10521.8	250.0	-50.2	99.9	268.7	16.2	16.2	0.4	331.5	999.9	99.9	999.9	19.9	85.
36.7	99.2	11209.7	225.0	-50.3	99.9	255.8	12.4	12.0	3.1	341.5	999.9	99.9	999.9	21.4	85.
39.2	104.2	11979.4	200.0	-51.7	99.9	239.9	16.3	14.0	8.4	350.8	999.9	99.9	999.9	23.3	83.
42.1	110.0	12846.0	175.0	-51.4	99.9	245.8	19.6	17.9	8.0	365.1	999.9	99.9	999.9	26.4	80.
45.5	116.0	13850.3	150.0	-51.4	99.9	241.0	11.3	9.[illegible]	5.5	381.5	999.9	99.9	999.9	29.4	79.
49.0	123.0	15016.8	125.0	-57.8	99.9	242.8	11.1	9.9	5.1	390.4	999.9	99.9	999.9	31.5	77.
53.9	131.0	16415.0	100.0	-59.5	99.9	211.7	6.1	3.2	5.2	412.7	999.9	99.9	999.9	33.8	76.
59.7	139.7	18211.3	75.0	-62.0	99.9	160.5	3.0	-1.0	2.8	443.0	999.9	99.9	999.9	34.4	74.
64.3	149.1	20754.8	50.0	-56.4	99.9	999.9	999.9	99.9	99.9	510.6	999.9	99.9	999.9	32.6	73.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
+ BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 654
HURON, SOUTH DAKOTA

25 MAY 1977
300 GMT

146 18. 0

*TIME MIN	CNTC*	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	10.1	792.0	958.0	18.2	15.8	160.0	6.2	-2.1	5.8	295.0	326.1	11.9	86.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	10.7	844.2	950.0	1 .0	18.9	167.6	11.6	-2.5	11.3	295.5	327.1	12.1	87.5	0.2	348.
0.9	12.9	893.0	925.0	17.4	15.2	177.4	12.9	-0.6	12.9	297.1	328.4	11.9	87.3	0.7	347.
1.9	15.1	927.3	900.0	15.9	13.6	193.6	11.0	2.6	10.7	297.9	327.1	11.0	86.1	1.3	356.
2.8	17.1	1146.8	875.0	15.0	9.1	212.0	9.7	5.1	8.2	299.4	322.1	8.4	67.7	1.7	4.
3.4	19.5	1412.4	850.0	14.6	2.8	227.7	9.6	5.4	5.8	301.4	317.0	5.8	45.3	2.1	12.
4.4	21.9	1664.1	825.0	13.2	-1.0	237.2	8.2	6.9	4.5	302.6	314.9	4.3	37.4	2.5	18.
5.3	24.1	1921.7	800.0	10.8	-2.7	234.9	7.4	6.1	4.3	302.6	314.0	3.9	38.8	2.8	24.
6.1	26.5	2185.4	775.0	9.0	-7.4	227.9	7.0	4.9	5.1	303.5	312.0	2.9	30.8	3.1	27.
7.0	29.1	2455.0	750.0	7.4	-19.0	227.2	6.3	4.6	4.3	304.6	308.2	1.1	13.2	3.5	28.
8.1	31.7	2733.6	725.0	4.3	-19.6	231.1	6.6	5.1	4.1	304.9	308.4	1.1	14.6	3.9	30.
9.0	34.2	3018.7	700.0	3.3	-22.1	232.2	8.2	6.5	5.0	306.1	309.1	0.9	13.5	4.2	32.
9.9	36.7	3312.2	675.0	1.3	-27.0	243.4	9.3	8.3	4.2	307.1	309.1	0.6	10.0	4.7	35.
11.1	39.4	3614.6	650.0	-0.9	-32.6	245.3	9.5	9.2	2.4	308.0	309.3	0.4	6.8	5.2	39.
12.1	42.0	3926.1	625.0	-3.2	-32.0	252.7	8.9	8.5	2.7	309.9	310.1	0.4	8.6	5.7	42.
13.2	44.9	4247.7	600.0	-5.4	-36.6	241.5	8.0	7.1	3.5	309.8	310.8	0.3	6.5	6.2	45.
14.4	47.8	4578.8	575.0	-9.1	-40.3	238.0	7.9	6.7	4.2	310.5	311.2	0.2	5.4	6.7	46.
15.6	50.8	4921.5	550.0	-10.4	-49.2	236.0	9.5	7.9	5.3	311.7	312.1	0.1	2.7	7.3	47.
16.9	53.5	5279.6	525.0	-13.3	-43.0	225.9	10.6	7.6	7.4	312.5	313.0	0.2	6.1	8.1	47.
18.1	56.4	5660.7	500.0	-15.9	-46.4	214.5	10.2	5.8	8.4	313.7	314.1	0.1	5.2	8.9	47.
19.5	59.5	6077.6	475.0	-19.0	-48.2	201.0	10.5	3.8	9.9	314.5	314.8	0.1	5.5	9.7	45.
20.9	62.9	6534.9	450.0	-19.8	-51.9	144.1	12.3	0.9	12.3	315.3	315.6	0.1	3.9	10.5	42.
22.4	66.0	6856.3	425.0	-22.9	-62.8	151.9	16.2	0.5	16.2	319.8	319.9	0.0	1.2	11.5	38.
23.8	69.6	7298.3	400.0	-25.9	-61.2	169.2	20.4	-3.8	20.1	321.4	321.5	0.0	2.1	12.7	34.
25.5	73.3	7743.9	375.0	-28.4	-51.9	159.9	26.3	-9.0	24.7	324.0	324.3	0.1	8.4	14.3	28.
27.1	76.9	8257.9	350.0	-31.8	-36.7	159.9	33.1	-11.4	31.1	325.9	327.5	0.5	61.9	16.4	19.
29.0	80.4	8774.8	325.0	-34.7	-43.9	153.7	36.4	-16.1	32.6	328.9	329.8	0.2	38.7	19.4	12.
30.9	84.4	9329.2	303.0	-39.6	-42.8	149.6	37.9	-19.1	32.6	329.6	330.7	0.3	70.9	22.9	4.
33.9	88.8	9917.4	275.0	-44.7	99.9	148.5	37.4	-19.5	31.9	331.1	999.9	99.9	999.9	26.9	359.
35.1	93.5	10540.4	250.0	-49.5	99.9	150.3	37.5	-19.6	32.6	332.5	999.9	99.9	999.9	31.1	354.
37.4	98.2	11233.1	225.0	-53.5	99.9	155.4	36.7	-15.3	33.4	336.5	999.9	99.9	999.9	35.9	351.
40.0	103.2	11985.2	200.0	-56.1	99.9	155.3	30.7	-12.9	27.9	343.9	999.9	99.9	999.9	41.2	349.
42.9	108.8	12820.8	175.0	-54.7	99.9	171.0	19.3	-3.0	19.1	359.7	999.9	99.9	999.9	45.7	348.
44.7	114.8	13819.7	150.0	-54.7	99.9	182.1	10.5	0.4	10.5	375.9	999.9	99.9	999.9	48.2	349.
50.7	121.3	14948.4	125.0	-56.5	99.9	182.2	7.0	0.3	7.0	392.7	999.9	99.9	999.9	50.2	349.
54.9	128.7	14390.7	100.0	-59.3	99.9	172.0	6.0	-0.8	5.9	413.1	999.9	99.9	999.9	52.0	350.
61.1	134.9	15194.9	75.0	-59.2	99.9	119.1	4.5	-3.9	2.1	448.9	999.9	99.9	999.9	53.7	346.
69.5	144.7	20741.0	50.0	-57.0	99.9	79.5	7.5	-7.4	-1.4	509.2	999.9	99.9	999.9	53.7	346.
91.9	152.7	25100.9	25.0	-52.4	99.9	82.7	9.1	-9.0	-1.2	634.5	999.9	99.9	999.9	55.7	348.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 662
RAPID CITY, SOUTH DAKOTA

28 MAY 1977
1301 GMT

845 18. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.6	964.0	893.7	16.7	11.2	120.0	3.1	-2.7	1.5	299.3	324.7	9.4	70.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	900.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.7	[illegible]	1148.2	875.0	19.7	9.4	265.5	1.3	1.3	0.1	304.3	326.4	8.0	48.0	0.2	324.
1.5	19.7	1297.4	850.0	19.6	4.0	237.6	2.0	1.7	1.1	305.7	322.7	6.0	38.0	0.3	332.
2.6	21.9	1452.8	825.0	17.1	1.6	258.7	4.2	4.1	0.8	306.7	321.7	5.	35.0	0.3	24.
3.7	24.2	1914.4	800.0	15.1	0.5	257.1	6.4	6.3	1.4	307.2	321.6	5..	36.9	0.6	57.
4.8	25.6	2181.9	775.0	12.4	-1.4	253.0	7.7	7.4	2.3	307.2	320.1	4.6	38.1	1.0	64.
6.1	29.1	2455.4	750.0	9.6	-1.9	251.3	9.5	9.0	3.1	307.0	320.0	4.5	44.5	1.7	67.
7.4	31.9	2734.0	725.0	6.9	-2.8	251.4	9.2	8.7	2.9	307.1	319.5	4.3	49.7	2.4	68.
8.8	34.4	3019.5	700.0	4.5	-3.2	251.9	9.3	8.9	2.9	307.5	320.1	4.2	57.6	3.1	69.
9.7	34.9	3214.6	675.0	2.0	-4.5	254.2	9.8	9.4	2.7	307.9	319.8	4.1	62.2	3.7	70.
10.7	39.8	3621.7	650.0	-1.0	-6.9	260.5	10.5	10.4	1.7	307.8	318.2	3.5	64.0	4.3	71.
11.9	42.4	3923.5	625.0	-3.6	-10.4	262.7	11.3	11.3	1.4	308.3	316.6	2.8	56.4	5.0	73.
13.1	45.3	4254.6	600.0	-6.6	-13.0	261.9	12.2	12.0	1.7	308.5	315.5	2.3	60.2	5.9	74.
14.2	48.4	4585.5	575.0	-9.2	-17.2	260.7	13.0	12.9	2.1	309.2	314.6	1.7	52.4	6.8	75.
15.5	51.3	4928.6	550.0	-10.9	-21.2	263.4	12.4	12.3	1.4	311.2	315.3	1.3	42.2	7.8	76.
16.9	54.4	5284.6	525.0	-13.4	-25.4	259.0	12.0	11.8	2.3	312.3	315.3	0.9	35.6	8.8	77.
18.2	57.4	5651.7	500.0	-16.4	-31.3	250.6	9.2	8.7	3.0	313.1	314.9	0.6	28.2	9.6	76.
19.6	60.9	6036.9	475.0	-20.2	-34.6	247.8	9.3	9.6	3.5	313.0	314.5	0.4	26.1	10.3	76.
20.9	64.3	6435.3	450.0	-23.4	-36.7	239.8	12.2	10.5	6.1	313.8	315.1	0.4	28.9	11.1	75.
22.2	67.4	6850.6	425.0	-26.8	-34.2	234.5	15.6	12.7	9.1	314.7	316.4	0.5	49.2	12.3	73.
24.0	71.1	7285.9	400.0	-30.3	-43.8	235.9	16.7	13.9	9.4	315.6	316.3	0.2	25.7	13.8	71.
25.3	75.0	7740.5	375.0	-33.8	-49.2	239.3	15.6	13.4	7.9	315.8	317.2	0.1	19.3	15.1	70.
26.9	79.0	8220.1	350.0	-37.7	-53.4	244.7	12.9	11.6	5.5	317.9	318.2	0.1	17.4	16.4	69.
28.6	83.0	8727.4	325.0	-41.9	99.9	242.1	12.7	11.2	5.9	319.1	999.9	99.9	999.9	17.7	69.
30.6	87.3	9264.5	300.0	-46.5	99.9	241.9	12.2	10.8	5.8	319.8	999.9	99.9	999.9	19.2	68.
32.6	92.0	9834.9	275.0	-50.5	99.9	232.9	13.9	11.0	8.3	322.2	999.9	99.9	999.9	20.7	68.
35.1	96.6	10458.7	250.0	-49.0	99.9	200.4	11.5	4.0	10.8	333.3	999.9	99.9	999.9	22.5	66.
37.8	101.5	11152.9	225.0	-47.1	99.9	172.2	11.9	-1.6	11.8	346.3	999.9	99.9	999.9	23.1	62.
40.6	107.5	11929.1	200.0	-48.3	99.9	192.5	12.7	2.8	12.4	356.3	999.9	99.9	999.9	24.2	57.
43.7	113.7	12806.7	175.0	-49.2	99.9	195.2	10.5	2.7	10.1	368.5	999.9	99.9	999.9	25.8	54.
47.2	119.8	13809.8	150.0	-53.6	99.9	213.0	11.0	6.0	9.2	377.7	999.9	99.9	999.9	27.7	52.
51.0	126.9	14981.1	125.0	-55.9	99.9	204.0	9.5	3.9	8.7	394.0	999.9	99.9	999.9	29.6	50.
56.4	134.3	16407.8	100.0	-55.3	99.9	214.8	4.8	2.7	3.9	420.8	999.9	99.9	999.9	32.2	48.
62.5	141.7	18221.8	75.0	-59.7	99.9	216.1	2.8	1.6	2.3	447.7	999.9	99.9	999.9	32.1	47.
72.8	149.3	20791.2	50.0	-55.7	99.9	340.2	5.1	1.7	-4.8	512.3	999.9	99.9	999.9	30.8	46.
88.2	157.0	25233.2	25.0	-50.6	99.9	55.2	9.5	-7.9	-5.4	639.1	999.9	99.9	999.9	25.0	34.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

ORIGINAL PAGE IS
OF POOR QUALITY

STATION NO. 11001
MARSHALL SFC, ALABAMA

28 MAY 1977
240 GMT

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	6.7	180.0	999.1	24.0	19.7	70.0	2.1	-2.0	-0.7	299.1	337.0	14.8	77.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.6	7.7	305.*	975.0	22.0	18.4	99.5	7.1	-7.0	1.2	297.3	333.6	13.9	80.4	0.1	273.
1.5	9.6	531.*	950.0	21.1	17.3	111.7	7.0	-6.5	2.6	299.0	333.6	13.3	79.0	0.5	284.
2.4	11.3	762.*	925.0	19.2	16.0	111.7	6.7	-6.2	2.5	298.9	332.2	12.5	82.0	0.9	286.
3.3	13.2	997.9	900.0	17.0	15.2	123.4	5.3	-4.4	2.9	299.0	331.7	12.3	85.0	1.2	289.
4.2	15.2	1238.4	875.0	15.1	13.2	130.4	4.2	-3.2	2.7	299.4	328.8	11.0	88.5	1.5	294.
5.3	17.2	1484.1	850.0	13.9	11.6	119.7	3.2	-2.8	1.6	300.6	328.1	10.2	88.6	1.7	295.
7.3	21.2	1993.9	800.0	10.8	10.6	109.8	3.8	-3.6	1.3	301.0	327.6	9.8	93.0	1.9	295.
9.4	23.3	2258.0	775.0	9.4	9.5	99.7	4.4	-4.4	0.7	302.7	328.3	9.4	91.6	2.1	296.
9.5	25.4	2530.1	750.0	8.0	6.5	100.0	4.5	-4.4	0.8	304.0	325.8	7.9	82.0	2.4	292.
10.6	27.5	2809.9	725.0	6.9	4.7	98.4	3.8	-3.7	0.6	305.2	325.4	7.2	80.1	2.7	291.
11.5	29.7	3097.6	700.0	4.6	2.9	95.5	3.2	-3.2	0.3	306.9	325.3	6.5	75.4	2.9	289.
12.7	31.9	3393.9	675.0	2.1	1.9	99.0	2.5	-2.5	0.4	307.5	325.6	6.3	83.0	3.1	289.
13.8	34.1	3697.6	650.0	0.7	0.9	93.6	2.5	-2.5	0.2	309.0	325.3	6.1	91.8	3.2	288.
15.2	36.4	4011.9	625.0	-1.7	-0.7	87.0	2.6	-2.4	-1.0	309.9	326.1	5.6	90.4	3.4	287.
16.4	38.8	4337.1	600.0	-1.9	-2.0	89.0	2..	-1.4	-1.6	310.5	326.0	5.3	97.9	3.5	286.
17.7	41.2	4675.0	575.0	-3.9	-5.0	82.6	2.3	-2.1	-0.3	314.0	327.2	4.4	78.7	3.6	283.
19.1	43.8	5025.3	550.0	-4.7	-8.0	107.2	3.5	-3.3	1.0	315.5	326.6	3.7	73.2	3.8	283.
20.4	46.3	5390.1	525.0	-7.1	-14.7	81.6	3.6	-3.6	-0.5	318.5	325.6	2.2	45.3	4.1	283.
21.7	49.0	5769.0	500.0	-10.5	-21.2	66.1	3.5	-3.2	-1.4	319.9	324.3	1.3	31.4	4.4	282.
23.0	51.7	6161.9	475.0	-12.9	-21.5	82.7	3.8	-3.7	-0.5	320.3	324.8	1.4	40.0	4.6	279.
24.4	54.6	6571.5	450.0	-15.3	-25.8	95.4	6.1	-6.1	0.6	322.0	325.3	1.0	32.8	4.9	279.
25.9	57.5	7000.6	425.0	-18.7	-33.2	85.9	6.9	-6.8	-0.5	324.0	325.8	0.5	19.9	5.5	278.
27.5	60.6	7449.4	400.0	-22.5	-35.7	82.4	9.3	-9.2	-1.1	325.0	326.5	0.4	20.5	6.2	276.
29.4	63.8	7919.6	375.0	-26.1	-38.3	73.	6.8	-6.5	-1.9	325.8	327.0	0.3	21.9	6.9	274.
31.3	67.0	8414.9	350.0	-29.7	-39.4	75.4	3.9	-3.5	-1.0	327.1	328.4	0.4	30.2	7.5	273.
33.3	70.5	8939.5	325.0	-34.1	-41.1	103.1	2.4	-2.3	0.5	328.8	329.8	0.3	31.8	7.8	272.
35.4	74.3	9492.9	300.3	-39.2	-45.3	158.6	2.0	-0.7	1.9	329.4	330.1	0.2	31.7	8.0	273.
37.4	78.0	10083.6	275.0	-44.1	99.9	230.8	2.4	1.8	1.5	330.1	999.9	99.9	999.9	7.9	275.
39.6	82.2	10713.6	250.0	-49.7	99.9	249.2	4.1	3.9	1.5	331.3	999.9	99.9	999.9	7.6	276.
41.8	86.6	11385.3	225.0	-54.7	99.9	242.4	5.6	4.9	2.6	332.1	999.9	99.9	999.9	7.1	278.
44.1	91.3	12141.5	200.0	-59.7	99.9	280.0	7.8	7.4	-2.6	334.7	999.9	99.9	999.9	6.2	281.
46.9	96.4	12944.7	175.0	-64.8	99.9	300.7	11.2	9.6	-5.7	338.3	999.9	99.9	999.9	5.1	285.
50.1	102.0	13810.*	150.0	-43.2	99.9	314.7	9.3	6.6	-6.5	343.0	999.9	99.9	999.9	3.6	263.
53.8	109.3	15039.2	125.0	-62.9	99.9	294.4	10.1	9.2	-4.2	361.2	999.9	99.9	999.9	2.8	234.
59.4	115.3	14404.1	100.0	-63.9	99.9	304.2	7.8	6.4	-4.5	381.2	999.9	99.9	999.9	2.4	191.
99.9	99.9	99.9	75.0	99.9	99.9	999.9	99.9	99.9	99.9	404.3	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	50.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

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Sounding Data

28 May 1977

1100 GMT

STATION NO. 229
CENTERVILLE, ALABAMA

28 MAY 19/
1105 GMT

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ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.0	140.0	992.4	19.6	19.6	90.0	2.6	-2.0	-1.7	293.4	328.9	13.8	94.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	4.6	291.4	975.0	20.6	17.6	199.1	5.4	1.7	5.2	295.9	330.3	13.2	83.0	0.3	268.
1.5	10.9	519.4	950.0	19.6	17.9	149.9	3.2	-1.6	2.8	297.1	333.0	13.7	89.7	0.3	302.
2.4	13.4	748.7	925.0	18.5	17.3	145.5	3.7	-2.1	3.0	299.2	336.1	13.6	93.2	0.5	309.
3.1	15.7	959.9	900.0	16.9	15.8	154.5	3.5	-1.4	3.2	299.0	332.7	12.7	93.3	0.7	313.
4.0	18.2	1224.2	875.0	15.3	12.4	185.7	1.8	0.2	1.8	299.7	327.8	10.4	82.7	0.8	319.
5.0	20.6	1470.4	850.0	14.0	12.9	181.9	1.4	0.0	1.4	300.8	330.6	11.1	93.1	0.8	323.
5.9	23.1	1722.2	825.0	12.3	11.4	181.1	1.5	0.0	1.5	301.6	329.6	10.3	93.8	0.9	325.
6.9	25.6	1980.5	800.0	11.2	9.5	236.7	1.4	1.2	0.8	303.1	328.9	9.4	89.5	1.0	328.
7.7	28.2	2245.4	775.0	9.9	8.3	267.5	2.2	2.2	0.1	303.8	328.3	8.9	93.4	0.9	334.
8.9	30.9	2517.1	750.0	7.7	6.5	291.7	2.0	1.8	-0.7	304.9	327.6	8.2	92.5	0.9	343.
9.9	33.7	2796.3	725.0	6.0	4.9	324.5	2.2	1.3	-1.8	305.0	327.2	7.5	92.6	0.8	347.
10.9	36.3	3083.7	700.0	4.4	2.9	355.4	2.7	0.2	-2.7	307.4	326.5	6.8	89.6	0.6	346.
11.9	39.1	3379.8	675.0	2.8	0.6	21.2	3.4	-1.2	-3.1	308.9	325.8	5.9	85.2	0.4	339.
13.1	41.9	3685.7	650.0	2.0	-1.4	348.9	6.4	1.2	-6.3	311.2	326.8	5.1	78.5	0.3	300.
14.2	44.8	4001.1	625.0	-0.8	-2.7	345.8	7.6	1.9	-7.4	311.5	326.2	5.0	86.9	0.2	164.
15.4	47.9	4326.2	600.0	-3.4	-4.4	339.4	7.2	4.7	-5.5	312.1	325.8	4.6	93.4	0.7	166.
16.6	50.8	4662.4	575.0	-5.2	-6.1	338.5	6.0	4.0	-4.5	313.9	326.5	4.2	93.6	1.2	154.
17.9	54.0	5010.3	550.0	-7.2	-8.1	333.5	4.4	2.6	-3.5	315.5	327.0	3.8	93.3	1.5	151.
19.9	57.1	5372.1	525.0	-8.8	-9.6	316.4	4.7	3.2	-3.4	317.9	328.7	3.5	93.6	1.8	150.
20.1	60.4	5747.5	500.0	-12.8	-23.9	309.6	5.4	4.1	-3.4	317.5	321.1	1.1	38.7	2.2	146.
21.6	63.7	6137.5	475.0	-14.9	-25.7	319.3	5.5	3.6	-4.2	319.6	322.9	1.0	36.6	2.6	144.
23.0	67.0	6544.4	450.0	-17.3	-32.9	319.3	5.6	3.7	-4.3	321.5	323.4	0.5	24.1	3.1	142.
24.5	70.6	6969.9	425.0	-20.7	-53.8	296.3	3.6	3.3	-1.6	322.4	322.7	0.1	3.3	3.5	142.
26.1	74.3	7416.1	400.0	-23.0	-43.7	264.6	3.3	3.3	0.3	325.1	325.8	0.2	12.9	3.8	139.
27.9	78.2	7885.6	375.0	-26.5	-41.0	241.7	3.3	2.9	1.5	326.5	327.5	0.3	23.9	3.9	134.
29.7	82.2	8378.0	350.0	-30.6	-47.9	235.4	2.6	2.1	1.5	327.5	328.3	0.2	25.7	4.0	130.
31.5	86.2	8901.6	325.0	-34.6	-70.4	307.2	1.0	0.8	-0.6	329.0	329.1	0.0	1.6	4.1	128.
33.6	90.5	9455.8	300.0	-38.9	-49.2	28.6	2.9	-1.4	-2.6	330.6	331.1	0.2	36.4	4.1	130.
35.7	95.3	10045.9	275.0	-43.9	99.9	24.2	3.2	-1.3	-2.9	331.8	999.9	99.9	999.9	4.2	137.
37.9	100.0	10690.6	250.0	-48.5	99.9	300.1	4.0	3.4	-2.0	333.9	999.9	99.9	999.9	4.4	136.
40.2	105.0	11394.4	225.0	-54.7	99.9	273.4	9.8	9.8	-0.6	334.7	999.9	99.9	999.9	5.2	131.
43.0	110.4	12139.2	200.0	-59.5	99.9	283.6	8.3	8.1	-1.9	338.5	999.9	99.9	999.9	6.6	122.
45.9	115.9	12939.6	175.0	-62.7	99.9	303.9	10.4	8.7	-5.8	346.4	999.9	99.9	999.9	8.1	120.
49.5	122.3	13863.1	150.0	-59.0	99.9	311.8	8.7	6.5	-5.8	368.5	999.9	99.9	999.9	10.1	123.
53.6	128.9	15024.0	125.0	-61.9	99.9	300.1	9.0	7.8	-4.5	383.0	999.9	99.9	999.9	12.3	123.
58.7	136.0	16397.0	100.0	-65.3	99.9	311.4	9.3	6.3	-5.5	401.6	999.9	99.9	999.9	15.0	123.
65.1	142.5	18155.2	75.0	-64.7	99.9	358.7	4.7	0.1	-4.7	437.1	999.9	99.9	999.9	17.4	126.
73.9	149.7	20655.5	50.0	-58.5	99.9	82.9	7.6	-7.6	-1.0	505.8	999.9	99.9	999.9	16.6	133.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 238
JACKSON, MISSISSIPPI

28 MAY 1977
1100 GMT

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TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	6.5	100.0	995.4	20.0	19.0	360.0	0.0	0.0	0.0	293.5	329.8	14.1	94.0	0.0	0.
99.9	99.9	99.0	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	999.
0.6	9.4	291.0	975.0	23.9	20.5	999.9	999.9	99.9	99.9	299.1	340.9	18.9	82.6	999.9	999.
1.6	10.9	509.0	950.0	24.1	16.6	999.9	999.9	99.9	99.9	301.7	335.7	12.7	63.1	999.9	999.
2.6	13.1	747.4	925.0	22.8	15.4	324.6	5.2	3.0	-4.3	302.6	335.1	12.0	63.1	0.7	158.
3.3	14.5	880.0	900.0	20.9	14.4	324.1	4.9	2.9	-4.0	303.1	334.3	11.5	66.2	1.0	148.
4.4	16.0	1224.4	875.0	19.2	12.1	323.0	5.5	2.5	-4.9	303.7	331.6	10.2	63.5	1.3	149.
5.2	20.5	1473.5	850.0	17.6	9.7	321.1	6.5	4.1	-5.1	304.6	329.3	8.9	59.7	1.6	148.
6.3	23.0	1720.0	825.0	15.4	8.4	319.9	6.3	4.0	-4.8	304.9	328.3	8.4	62.8	2.0	146.
7.1	25.5	1968.5	800.0	13.0	8.0	311.9	6.9	5.1	-4.6	305.0	328.5	8.5	71.7	2.3	145.
8.0	28.1	2254.8	775.0	11.1	4.3	315.1	7.8	5.5	-5.5	305.8	324.8	6.8	62.8	2.7	142.
9.0	30.9	2529.0	750.0	9.9	-2.6	330.2	8.8	4.4	-7.6	307.3	319.6	4.2	41.3	3.2	143.
10.2	33.8	2809.0	725.0	8.2	-1.4	335.2	9.4	3.9	-8.5	308.4	322.3	4.9	51.0	3.8	145.
11.1	36.4	3099.1	700.0	6.3	-5.7	336.4	10.7	4.3	-9.8	309.5	320.1	3.6	41.6	4.4	146.
12.3	39.4	3395.3	675.0	4.0	-6.7	329.0	10.3	5.3	-8.8	310.1	320.3	3.4	45.5	5.1	147.
13.5	42.1	3700.4	650.0	1.7	-12.1	324.5	10.7	6.2	-8.7	310.8	318.0	2.3	35.1	5.8	147.
14.9	45.3	4015.6	625.0	-0.9	-17.8	323.5	11.4	6.8	-9.1	311.5	316.3	1.5	26.3	6.7	147.
15.9	48.4	4340.2	600.0	-3.1	-24.0	321.3	11.1	7.0	-8.7	312.6	315.6	0.9	17.6	7.5	146.
17.1	51.4	4674.4	575.0	-7.6	-49.3	326.5	10.4	5.7	-8.7	315.8	316.1	0.1	1.5	8.3	146.
18.5	54.7	5018.5	550.0	-5.1	-53.1	327.0	10.4	5.7	-8.7	318.1	318.3	0.0	1.0	9.1	146.
19.7	57.9	5372.8	525.0	-4.1	-71.2	319.7	10.6	6.9	-8.1	318.7	320.5	0.5	13.6	9.9	146.
20.9	61.3	5738.4	500.0	-10.4	-56.7	320.9	12.0	7.6	-9.3	320.1	320.2	0.0	1.0	10.6	145.
22.3	64.9	6118.9	475.0	-13.5	-58.5	319.2	12.6	8.2	-9.5	321.3	321.4	0.0	1.0	11.7	145.
23.8	68.7	6508.6	450.0	-15.9	-59.9	318.1	10.7	7.1	-7.9	323.4	323.5	0.0	1.0	12.7	144.
25.3	72.0	6904.5	425.0	-18.8	-61.9	331.7	11.3	5.4	-10.0	324.9	324.9	0.0	1.0	13.7	144.
27.0	75.8	7305.0	400.3	-22.7	-64.4	342.5	11.4	3.4	-10.9	325.5	325.5	0.0	1.0	14.8	145.
28.7	80.1	7714.9	375.0	-25.9	-67.1	339.9	15.0	5.4	-14.0	325.1	326.2	0.0	1.0	16.1	147.
30.5	84.2	8138.7	350.0	-30.8	-69.7	334.8	17.4	7.4	-15.7	327.3	327.3	0.0	1.0	17.9	148.
32.2	88.4	8570.3	325.0	-35.0	-72.5	328.9	15.9	8.2	-13.6	328.4	328.4	0.0	1.0	19.7	148.
34.4	93.2	9029.6	300.0	-39.4	99.9	323.1	13.4	8.1	-10.7	329.9	999.9	99.9	999.9	21.5	148.
36.6	97.9	10071.0	275.0	-44.2	99.9	319.4	14.4	9.4	-10.9	331.2	999.9	99.9	999.9	23.2	147.
39.0	103.0	10706.7	250.0	-48.7	99.9	320.7	15.9	10.1	-12.3	333.7	999.9	99.9	999.9	25.4	147.
41.7	108.6	11339.9	225.0	-52.4	99.9	313.3	14.6	10.6	-10.0	338.3	999.9	99.9	999.9	27.9	146.
44.6	114.9	12169.9	200.0	-55.9	99.9	309.0	15.9	13.4	-8.7	344.3	999.9	99.9	999.9	30.4	144.
47.9	121.0	12992.1	175.0	-58.9	99.9	311.6	17.7	13.3	-11.8	352.8	999.9	99.9	999.9	33.6	143.
51.2	127.8	13953.4	150.0	-62.2	99.9	307.6	18.6	14.7	-11.3	362.9	999.9	99.9	999.9	36.9	142.
55.3	135.5	15070.6	125.0	-63.7	99.9	314.0	14.8	10.7	-10.3	379.7	999.9	99.9	999.9	41.4	140.
60.3	143.0	14439.0	100.9	-64.0	99.9	312.9	8.3	6.1	-5.6	404.1	999.9	99.9	999.9	46.7	140.
64.3	151.3	19189.7	75.0	-66.0	99.9	359.0	4.3	0.1	-6.3	434.7	999.9	99.9	999.9	48.7	148.
74.4	160.3	20705.5	50.0	-57.4	99.9	95.1	7.4	-7.6	0.7	508.4	999.9	99.9	999.9	45.7	144.
87.0	169.7	25199.9	25.0	-49.3	99.9	266.2	1.0	2.9	0.2	643.4	999.9	99.9	999.9	43.5	145.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
+ BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 240
LAKE CHARLES, LOUISIANA

28 MAY 1977
1100 GMT

157 13. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	5.6	5.0	1009.0	21.7	21.2	240.0	1.5	1.5	-0.3	294.2	335.2	16.0	97.0	0.0	0.
0.3	5.1	74.7	1000.0	22.0	22.0	255.4	5.0	4.9	1.3	296.1	339.9	16.9	94.4	0.2	99.
1.3	9.7	208.4	975.0	22.9	19.2	261.9	5.8	5.8	0.8	299.2	337.3	14.9	82.1	0.5	87.
2.2	10.4	327.6	950.0	23.5	14.0	255.2	3.7	3.6	0.9	301.1	329.8	10.6	64.9	0.8	84.
3.1	12.5	758.5	925.0	22.1	16.5	233.8	1.5	1.2	0.9	301.9	336.6	12.9	70.4	0.9	83.
4.0	14.8	994.5	900.0	20.3	16.0	164.7	1.6	-0.4	1.5	302.4	337.1	12.9	76.7	0.9	90.
5.1	15.9	1237.5	875.0	18.5	15.3	176.3	2.4	-0.2	2.4	303.0	337.0	12.6	81.8	0.9	72.
6.0	19.3	1485.5	850.0	16.1	13.9	177.2	2.9	-0.1	2.9	303.0	335.0	11.8	86.7	0.9	63.
6.9	21.5	1739.5	825.0	14.2	10.6	150.7	3.3	-1.6	2.9	303.6	330.6	9.8	79.5	1.0	54.
8.0	24.0	1995.5	800.0	14.2	-0.8	101.3	4.5	0.9	4.4	306.3	319.3	4.5	35.5	1.0	41.
9.2	26.1	2247.1	775.0	13.5	-4.7	242.3	6.9	6.1	3.2	308.4	319.6	3.8	30.3	1.5	43.
10.3	28.7	2502.7	750.0	13.0	-6.9	270.6	7.7	7.7	-0.1	310.7	319.9	3.1	24.5	1.9	52.
11.5	31.3	2758.3	725.0	11.0	-6.5	279.7	7.6	7.5	-1.3	311.6	321.3	3.2	28.5	2.3	62.
12.6	33.9	3014.0	700.0	9.1	-6.2	281.2	6.9	6.6	-1.3	312.5	322.9	3.5	33.9	2.7	68.
13.9	36.3	3269.1	675.0	6.4	-5.3	286.6	6.7	6.1	-1.8	312.8	324.3	3.8	43.2	3.1	72.
14.9	39.1	3524.0	650.0	3.5	-4.5	290.7	7.2	6.7	-2.5	312.9	325.5	4.2	56.0	3.4	77.
16.0	41.7	4043.4	625.0	1.0	-1.1	300.1	8.3	7.2	-4.2	313.6	330.2	5.7	85.9	3.5	82.
17.2	44.6	4300.6	600.0	-1.7	-5.3	305.4	10.1	8.3	-5.9	314.2	327.0	4.3	76.3	4.4	88.
18.5	47.5	4707.5	575.0	-5.1	-9.0	301.5	11.5	9.9	-6.0	314.0	324.2	3.4	74.0	5.1	93.
19.7	50.4	5055.1	550.0	-7.1	-29.8	301.2	12.3	10.5	-6.4	315.7	320.1	1.4	37.5	5.9	97.
21.2	53.4	5418.6	525.0	-6.9	-54.3	311.9	13.2	9.9	-8.8	320.2	320.3	0.0	1.0	6.9	102.
22.7	56.4	5797.5	500.0	-9.5	-44.1	319.6	15.7	10.2	-12.0	321.4	322.0	0.2	4.1	8.0	107.
24.1	59.6	6191.2	475.0	-12.5	-42.6	315.7	19.9	13.2	-13.5	322.5	323.2	0.2	6.0	9.3	112.
25.6	62.9	6601.4	450.0	-15.7	-37.1	313.9	19.5	14.0	-13.5	323.5	324.7	0.3	14.1	10.9	115.
27.2	66.1	7029.4	425.0	-18.9	-42.1	313.8	19.4	13.3	-12.7	324.7	325.5	0.2	10.7	12.6	118.
29.0	69.9	7477.0	400.0	-22.9	-50.4	318.7	18.6	12.3	-14.0	325.4	325.7	0.1	6.0	14.5	120.
30.9	73.4	7947.4	375.0	-26.0	-54.5	321.4	17.3	10.8	-13.6	327.2	327.5	0.1	4.9	16.5	123.
32.9	77.5	8442.2	350.0	-30.6	-55.9	315.9	16.9	11.8	-12.1	327.6	327.8	0.1	6.3	18.5	125.
35.1	81.4	8964.5	325.0	-34.8	-59.4	315.9	17.3	12.1	-12.4	329.2	329.4	0.0	5.9	20.6	126.
37.4	85.6	9519.6	300.0	-39.4	99.9	314.0	20.0	14.4	-13.9	329.9	999.9	99.9	999.9	23.1	127.
39.7	90.0	10108.5	275.0	-44.3	99.9	313.6	21.1	15.3	-14.5	331.1	999.9	99.9	999.9	26.0	127.
42.0	94.5	10741.9	250.0	-48.8	99.9	312.4	22.0	16.2	-14.8	333.8	999.9	99.9	999.9	29.0	128.
44.5	99.5	11429.8	225.0	-51.9	99.9	309.2	20.3	15.7	-12.9	339.0	999.9	99.9	999.9	32.2	128.
47.3	105.0	12184.0	200.0	-56.6	99.9	300.5	21.3	19.4	-10.8	343.2	999.9	99.9	999.9	35.4	128.
51.0	111.0	13025.5	175.0	-58.3	99.9	302.7	26.6	22.4	-14.4	353.7	999.9	99.9	999.9	40.6	127.
54.6	117.3	13945.3	150.0	-62.9	99.9	295.3	19.4	17.5	-8.3	361.8	999.9	99.9	999.9	45.7	127.
59.9	124.7	15107.4	125.0	-65.1	99.9	304.5	15.1	12.5	-8.4	377.1	999.9	99.9	999.9	49.8	125.
64.0	132.3	15483.1	100.0	-67.3	99.9	316.1	13.2	9.2	-9.5	397.6	999.9	99.9	999.9	54.0	126.
70.0	140.0	19190.9	75.0	-68.4	99.9	335.5	6.6	2.7	-6.0	429.6	999.9	99.9	999.9	58.3	127.
78.9	148.3	20794.8	50.0	-68.5	99.9	117.7	5.6	-5.0	2.6	505.8	999.9	99.9	999.9	53.5	129.
91.7	157.0	25173.5	25.0	-65.7	99.9	999.9	999.9	99.9	99.9	653.3	999.9	99.9	999.9	52.8	129.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 247
LONGVIEW, TEXAS

28 MAY 1977
1100 GMT

159 14. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	4.5	124.0	993.2	21.1	19.4	210.0	2.1	1.0	1.8	294.9	332.3	14.5	90.0	0.0	0.
99.9	99.9	99.9	1003.0	99.9	99.9	94.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	9.2	286.7	974.9	25.4	14.0	331.9	2.5	1.2	-2.2	300.7	338.8	14.3	67.6	0.4	50.
1.0	10.9	515.8	950.0	24.9	17.7	230.3	2.8	2.4	1.4	302.5	339.0	13.6	64.3	0.8	56.
1.5	12.8	749.7	925.0	23.2	16.6	208.9	3.3	1.6	2.9	303.1	338.1	13.0	66.3	0.7	52.
2.0	15.1	999.8	900.0	21.1	16.0	187.0	4.7	0.6	4.7	303.3	338.0	12.9	72.6	0.9	43.
2.5	17.4	1252.2	875.0	19.5	14.2	181.9	5.7	0.2	5.7	303.0	334.9	11.5	75.9	1.1	33.
3.1	20.1	1480.5	850.0	15.5	10.9	198.2	6.7	1.0	6.7	303.4	330.0	9.7	69.6	1.4	26.
3.6	22.5	1734.7	825.0	15.0	8.2	201.7	8.1	1.0	7.5	304.5	327.5	8.3	63.7	1.8	23.
4.1	25.1	1974.9	800.0	12.9	7.9	220.8	9.1	5.9	6.9	304.9	326.3	8.4	71.5	2.3	24.
4.6	27.6	2221.8	775.0	12.2	-1.2	231.4	9.0	7.1	5.6	307.0	320.6	4.7	41.0	2.9	25.
5.2	30.1	2536.8	750.0	12.5	-11.2	247.4	7.8	7.2	3.0	310.1	316.8	2.2	18.8	3.4	34.
10.2	33.0	2819.4	725.0	10.2	-3.6	266.5	7.0	7.0	0.4	310.6	322.6	4.0	37.7	3.7	38.
11.2	35.6	3110.4	700.0	8.5	-7.4	276.9	6.0	6.0	-0.7	312.0	321.5	3.1	31.6	3.9	43.
12.1	38.4	3409.7	675.0	6.2	-7.6	281.0	6.0	5.8	-1.1	312.6	322.2	3.2	36.5	4.1	47.
13.2	41.1	3717.4	650.0	3.6	-4.7	272.4	6.3	6.3	-0.3	313.0	323.4	4.1	54.4	4.4	51.
14.3	44.1	4034.5	625.0	0.3	-5.5	261.3	6.9	6.7	1.0	312.5	324.6	3.9	62.9	4.7	54.
15.5	47.1	4360.5	600.0	-2.9	-5.9	259.3	7.3	7.2	1.5	312.9	325.1	4.1	75.6	5.2	56.
16.7	50.2	4697.3	575.0	-2.9	-14.9	267.8	9.7	9.6	0.4	316.6	325.4	2.9	53.4	5.7	59.
17.9	53.1	5044.9	550.0	-7.6	-20.1	281.3	11.0	10.8	-2.2	319.9	320.7	0.2	4.4	6.4	63.
19.2	56.1	5414.7	525.0	-8.1	-30.5	285.3	12.0	11.6	-3.2	321.2	323.1	0.6	12.3	7.1	66.
20.5	59.4	5796.0	500.0	-9.7	-32.7	293.3	13.4	12.3	-5.3	321.7	323.3	0.5	12.8	7.8	72.
22.0	62.9	6187.6	475.0	-12.9	-36.9	295.7	14.7	13.3	-6.4	322.1	323.6	0.4	13.7	8.8	78.
23.4	66.1	6597.0	450.0	-16.3	-37.8	296.0	15.2	14.6	-7.1	322.7	323.9	0.3	13.5	10.0	83.
25.1	69.7	7026.1	425.0	-19.7	-41.0	301.0	16.0	13.7	-8.2	323.7	324.6	0.2	13.1	11.2	87.
26.9	73.3	7471.5	400.0	-22.9	-45.2	302.0	15.8	13.4	-8.4	325.3	325.9	0.2	10.8	12.6	92.
28.9	77.0	7940.7	375.0	-26.9	-47.8	301.9	17.1	14.6	-8.8	326.5	327.0	0.1	11.3	14.8	95.
30.6	80.9	8434.5	350.0	-30.6	-50.9	299.5	18.7	16.3	-9.2	327.6	327.9	0.1	11.5	16.0	98.
32.6	85.0	8955.6	325.0	-35.5	-54.3	302.3	19.5	16.5	-10.4	327.8	328.1	0.1	12.4	18.1	101.
34.8	89.2	9509.1	300.0	-40.2	99.9	306.7	20.4	16.3	-12.2	328.8	999.9	99.9	999.9	20.3	104.
36.8	93.7	10095.9	275.0	-44.9	99.9	307.5	21.9	17.3	-13.3	330.1	999.9	99.9	999.9	22.9	107.
39.0	98.4	10725.0	250.0	-50.1	99.9	307.6	24.9	21.0	-13.4	331.7	999.9	99.9	999.9	25.9	109.
41.4	103.3	11405.2	225.0	-55.4	99.9	305.7	26.7	21.7	-15.5	333.7	999.9	99.9	999.9	29.9	111.
44.3	108.5	12141.9	200.0	-58.3	99.9	306.7	25.0	20.0	-14.9	340.4	999.9	99.9	999.9	34.0	113.
47.5	114.1	12950.7	175.0	-58.5	99.9	307.4	24.2	19.3	-14.7	353.3	999.9	99.9	999.9	38.9	114.
51.0	120.4	13845.3	150.0	-56.7	99.9	292.9	14.9	13.7	-5.8	358.7	999.9	99.9	999.9	42.5	115.
54.3	127.7	15051.9	125.0	-64.9	99.9	283.9	16.8	16.3	-4.1	377.4	999.9	99.9	999.9	46.3	114.
58.2	135.7	16417.8	100.0	-67.3	99.9	317.2	12.5	9.5	-9.1	397.8	999.9	99.9	999.9	50.9	114.
66.3	142.8	18154.8	75.0	-67.4	99.9	37.7	5.9	-3.8	-4.7	431.7	999.9	99.9	999.9	82.2	116.
75.3	151.7	20679.3	50.0	-56.8	99.9	103.0	4.4	-4.3	1.0	510.3	999.9	99.9	999.9	49.1	117.
89.2	160.0	25111.3	25.0	-49.0	99.9	97.7	1.4	-1.4	0.2	643.7	999.9	99.9	999.9	46.9	118.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

ORIGINAL PAGE IS
OF POOR QUALITY

STATION NO. 258
VICTORIA, TEXAS

28 MAY 1977
1100 GMT

188 28. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	5.7	73.0	1003.7	20.9	19.6	190.0	2.6	0.5	2.6	293.8	331.8	14.8	94.0	0.0	0.
0.2	5.9	81.7	1000.0	21.0	20.0	69.0	3.4	-2.6	-2.2	295.1	335.5	15.7	93.2	0.5	0.
1.1	9.2	283.8	975.0	23.6	[illegible].4	92.6	5.7	-5.7	0.3	298.7	342.6	16.8	88.7	0.6	12.
1.9	10.4	510.9	950.0	21.6	19.1	197.3	9.2	1.6	9.0	298.9	338.1	14.9	87.1	1.1	11.
2.8	12.8	749.5	925.0	20.9	17.2	199.7	6.9	1.2	6.8	300.7	336.6	13.5	79.2	1.6	11.
3.6	14.9	990.4	900.0	20.7	16.5	196.9	4.4	1.3	4.4	302.9	338.7	13.3	77.1	1.9	11.
4.6	16.9	1224.9	875.0	20.3	4.5	219.6	3.7	2.3	2.9	304.9	324.6	[illegible].1	41.2	2.1	12.
5.5	19.4	1474.4	850.0	19.4	15.9	252.3	4.5	3.5	2.7	306.5	343.7	13.8	86.4	2.3	15.
6.5	21.5	1712.1	825.0	20.9	[illegible].8	254.8	6.3	6.0	1.6	310.5	321.2	3.6	19.4	2.5	21.
7.4	24.0	1957.5	800.0	20.5	-4.6	273.6	6.3	6.3	-0.4	313.0	323.3	3.4	18.1	2.7	28.
8.4	26.4	2200.2	775.0	19.0	-2.8	301.2	5.3	4.5	-2.7	313.2	325.2	4.0	24.8	2.7	35.
9.4	29.0	2449.2	750.0	15.2	-2.9	313.6	6.2	4.5	-4.2	313.1	325.5	4.1	28.5	2.7	41.
10.5	31.5	2696.2	725.0	13.1	-5.7	313.2	8.7	6.4	-4.0	313.9	324.4	3.5	26.8	2.7	51.
11.6	34.2	2939.1	700.0	11.4	-6.5	301.5	11.1	9.4	-5.8	315.1	325.4	3.4	28.8	2.9	64.
12.6	36.9	3181.4	675.0	9.7	-7.3	292.0	11.9	11.0	-4.4	315.4	325.4	3.3	31.4	3.5	74.
13.9	39.5	3422.1	650.0	8.1	-8.8	280.7	12.1	11.9	-2.3	315.9	325.7	3.2	35.8	4.2	80.
14.9	42.2	3661.9	625.0	7.0	-9.5	273.9	12.6	12.6	-0.9	315.9	328.2	4.1	53.4	5.0	83.
16.1	45.1	3903.9	600.0	-0.1	-10.3	272.5	12.8	12.8	-0.6	316.0	325.1	3.0	46.2	5.9	84.
17.2	48.1	4150.0	575.0	-1.4	-25.4	272.1	12.5	12.5	-0.5	318.3	321.2	0.9	14.0	6.8	85.
18.8	51.0	4393.5	550.0	-3.2	-19.9	276.9	10.7	10.6	-1.3	320.3	321.1	0.2	3.6	7.7	86.
20.1	54.1	4640.1	525.0	-5.4	-44.9	290.4	11.6	10.8	-4.0	321.9	322.5	0.1	2.7	8.5	88.
21.4	57.1	4881.9	500.0	-7.1	-52.7	297.3	13.5	12.0	-6.2	324.4	324.6	0.1	1.4	9.5	91.
22.8	60.5	5129.2	475.0	-10.5	-37.3	297.4	14.0	12.4	-6.4	325.0	326.2	0.3	8.9	10.6	94.
24.4	64.0	5381.8	450.0	-14.4	-38.1	299.2	14.6	12.7	-7.1	325.1	326.2	0.3	11.3	11.9	96.
25.9	67.3	5622.3	425.0	-17.9	-48.8	301.9	13.8	11.7	-7.3	326.9	326.5	0.1	8.5	13.0	99.
27.5	70.9	5872.2	400.0	-21.5	-51.8	303.7	14.7	12.2	-8.1	327.8	327.3	0.1	4.5	14.2	101.
29.1	74.7	6124.0	375.0	-25.5	-43.4	309.3	14.9	11.6	-9.5	327.9	328.7	0.2	17.9	15.5	103.
31.0	78.7	6380.5	350.0	-29.7	-39.1	309.2	15.6	12.2	-9.6	329.9	330.1	0.4	35.1	17.1	106.
32.7	82.7	6634.0	325.0	-34.3	-44.2	305.8	16.1	14.6	-10.6	329.5	330.3	0.2	32.3	18.7	108.
34.7	87.0	6887.8	300.0	-38.9	-49.3	304.3	17.7	14.7	-10.0	330.7	331.2	0.1	31.7	20.8	110.
34.7	91.4	7145.4	275.0	-44.2	99.9	297.9	20.3	17.9	-9.5	331.2	999.9	99.9	999.9	23.0	111.
38.0	96.4	7398.0	250.0	-47.6	99.9	295.3	22.5	20.3	-9.6	335.3	999.9	99.9	999.9	25.9	111.
41.6	101.8	7654.1	225.0	-50.6	99.9	289.5	24.2	24.7	-9.7	341.0	999.9	99.9	999.9	29.5	112.
44.4	107.0	7904.7	200.0	-55.2	99.9	284.0	26.6	27.4	-7.4	345.4	999.9	99.9	999.9	34.3	111.
47.6	113.0	8149.9	175.0	-59.2	99.9	287.1	29.5	27.3	-8.4	352.2	999.9	99.9	999.9	39.8	110.
48.8	119.3	8404.0	150.0	-63.3	99.9	287.1	25.4	22.8	-11.6	361.1	999.9	99.9	999.9	45.1	110.
54.7	125.5	8654.4	125.0	-69.0	99.9	291.2	17.5	16.3	-6.3	370.1	999.9	99.9	999.9	50.1	111.
58.4	132.3	8899.1	100.0	-69.7	99.9	322.6	10.4	8.3	-8.3	373.1	999.9	99.9	999.9	54.1	111.
63.3	141.8	9152.0	75.0	-65.8	99.9	327.5	4.9	2.7	-3.6	435.0	999.9	99.9	999.9	58.7	113.
73.9	149.7	9391.6	50.0	-59.1	99.9	111.7	5.1	-4.7	1.9	504.3	999.9	99.9	999.9	62.5	114.
68.1	157.3	9618.9	29.0	-48.2	99.9	286.4	3.7	3.6	-1.1	646.4	999.9	99.9	999.9	81.8	113.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 260
STEPHENVILLE, TEXAS

28 MAY 1977
1100 GMT

180 14. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MR STD GM/KG	RH PCT	RANGE KM	AZ DG
0.0	10.1	399.0	960.7	20.0	17.8	170.3	3.6	-0.6	3.5	296.5	331.8	13.5	87.0	0.0	0.
99.0	99.0	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	10.9	496.3	950.0	21.0	19.5	258.9	3.2	3.2	0.6	298.5	338.5	15.2	91.2	0.5	359.
1.4	13.1	729.6	925.0	21.3	19.6	220.8	11.6	7.8	8.8	301.1	342.8	15.7	90.0	0.9	15.
2.2	15.3	956.6	900.0	20.7	18.8	222.4	14.9	10.1	11.0	302.9	342.0	14.6	84.2	1.6	26.
3.2	17.5	1210.9	875.0	20.2	15.8	220.8	10.1	6.6	7.7	304.8	340.3	13.1	78.8	2.4	32.
4.1	19.8	1462.9	850.0	22.1	11.3	237.9	7.1	6.8	3.8	309.3	337.3	10.8	56.6	2.9	34.
5.1	22.0	1721.6	825.0	21.4	7.7	262.8	5.4	5.3	0.7	311.2	334.1	8.8	41.2	3.2	36.
6.4	24.4	1987.3	800.0	19.4	4.4	282.9	4.5	4.4	-1.0	311.9	330.9	6.6	37.1	3.4	42.
7.4	26.7	2259.5	775.0	17.4	2.2	284.1	5.7	5.5	-1.4	312.5	329.6	5.9	36.0	3.5	47.
8.6	29.2	2539.1	750.0	14.5	0.4	291.4	6.6	6.1	-2.4	312.4	327.8	5.3	37.9	3.7	53.
9.8	31.9	2823.3	725.0	11.8	-1.5	292.1	9.3	7.7	-3.1	312.4	326.4	4.7	36.6	4.8	59.
10.9	34.4	3115.7	700.0	9.4	-3.4	294.3	11.2	10.2	-4.6	312.9	325.6	4.3	40.4	4.4	66.
12.1	36.9	3415.9	675.0	6.9	-6.6	295.6	13.7	12.3	-5.9	313.4	323.9	3.5	37.3	5.0	73.
13.3	39.6	3724.7	650.0	4.3	-8.1	290.8	16.0	14.9	-5.7	313.8	323.5	3.2	40.0	5.9	80.
14.5	42.1	4042.6	625.0	1.9	-10.5	285.1	14.9	14.4	-3.9	314.6	323.1	2.8	39.2	7.0	85.
15.9	45.9	4370.6	600.0	0.0	-15.0	276.8	12.1	12.0	-1.4	316.2	322.5	2.0	31.2	8.8	87.
17.1	47.9	4710.4	575.0	-0.7	-22.0	267.8	8.9	8.9	0.3	319.2	323.0	1.1	18.1	8.7	87.
18.4	50.9	5063.9	550.0	-3.3	-19.5	274.0	7.1	7.0	-0.5	320.2	325.0	1.5	27.2	9.4	87.
19.9	53.8	5430.3	525.0	-5.7	-22.6	289.4	8.2	7.7	-2.7	321.6	325.5	1.2	24.9	9.9	88.
21.3	56.9	5811.2	500.0	-8.2	-25.3	292.5	10.3	9.5	-4.8	323.1	326.3	1.0	23.6	10.7	90.
22.6	60.0	6207.2	475.0	-11.5	-27.7	291.6	12.3	11.4	-4.5	323.8	326.6	0.8	24.6	11.6	92.
24.1	63.4	6619.4	450.0	-15.1	-29.8	290.8	12.9	12.0	-4.6	324.3	326.8	0.7	27.9	12.6	94.
25.4	66.8	7048.4	425.0	-18.9	-31.7	285.3	14.2	13.7	-3.8	324.7	326.9	0.6	31.1	13.9	95.
27.2	70.2	7496.7	400.0	-22.8	-35.2	285.3	14.0	13.5	-3.7	325.4	327.1	0.5	30.8	15.1	96.
28.9	73.7	7964.1	375.0	-26.9	-37.6	290.3	15.0	14.0	-5.2	326.1	327.5	0.4	35.0	16.6	97.
30.9	77.7	8450.1	350.0	-30.5	-41.0	290.7	15.0	14.0	-5.3	327.6	328.7	0.3	38.0	18.2	98.
32.5	81.5	8941.9	325.0	-35.1	-40.5	291.1	16.0	14.9	-5.7	328.4	329.6	0.3	33.3	19.8	99.
34.5	85.6	9435.3	300.0	-39.5	99.9	291.1	17.3	16.1	-6.2	329.7	999.9	99.9	999.9	21.8	100.
36.9	90.0	10123.9	275.0	-44.7	99.9	285.8	19.0	18.3	-5.2	330.4	999.9	99.9	999.9	24.2	101.
38.4	94.9	10756.2	250.0	-49.0	99.9	283.9	21.2	20.6	-5.1	333.3	999.9	99.9	999.9	27.3	101.
42.1	99.9	11441.4	225.0	-53.4	99.9	290.9	21.2	19.8	-7.6	336.7	999.9	99.9	999.9	30.6	102.
45.0	105.0	12178.9	200.0	-57.1	99.9	284.7	22.3	21.6	-5.7	342.4	999.9	99.9	999.9	34.3	103.
49.2	110.8	13032.3	175.0	-60.1	99.9	289.2	26.2	24.8	-8.6	350.8	999.9	99.9	999.9	39.0	103.
51.9	117.0	13999.9	150.0	-63.0	99.9	293.6	18.9	17.3	-7.6	361.8	999.9	99.9	999.9	44.1	104.
56.0	124.0	15139.7	125.0	-65.0	99.9	274.6	19.8	19.7	-1.7	377.3	999.9	99.9	999.9	48.0	105.
59.9	131.5	14459.3	100.0	-68.1	99.9	300.6	12.9	11.1	-6.6	396.2	999.9	99.9	999.9	52.6	104.
67.2	139.3	14196.6	75.0	-65.3	99.9	17.9	4.8	-1.2	-3.8	436.1	999.9	99.9	999.9	54.6	103.
74.0	147.3	20708.6	50.0	-57.4	99.9	91.7	5.7	-5.7	0.2	504.3	999.9	99.9	999.9	52.7	100.
89.2	155.3	25174.6	25.0	-50.4	99.9	88.9	3.4	-3.4	-0.1	640.1	999.9	99.9	999.9	50.8	107.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 261
DEL RIO, TEXAS

28 MAY 1977
1100 GMT

156 0. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME, MIN	CNTCT	MPTHGT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.9	314.0	960.7	22.6	21.4	130.0	4.2	-3.2	2.7	298.4	342.4	16.8	93.6	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.7	11.5	493.9	950.0	21.5	20.9	153.8	4.2	-1.8	3.7	299.0	342.7	16.7	96.5	0.5	313.
1.5	13.9	725.0	925.0	20.1	19.6	160.0	9.1	-3.1	8.5	299.9	341.4	13.7	96.7	0.8	322.
2.5	16.0	952.4	900.0	20.1	18.2	176.0	7.8	-0.5	7.8	302.2	341.9	14.9	89.2	1.3	332.
3.6	18.4	1207.4	875.0	21.0	14.6	181.3	7.5	0.2	7.5	306.5	340.8	12.2	64.4	1.7	339.
4.3	20.7	1450.6	850.0	22.5	5.4	182.0	7.8	0.3	7.8	309.7	328.9	6.7	33.2	2.1	343.
5.3	23.1	1719.7	825.0	22.0	-1.2	187.1	8.0	1.1	8.7	311.9	324.5	4.2	21.1	2.5	347.
6.2	25.4	1995.1	800.0	20.5	-0.7	195.8	8.6	2.3	8.2	313.1	326.6	4.5	24.0	3.0	351.
7.4	27.8	2259.3	775.0	19.0	-0.5	203.3	8.7	2.7	8.2	314.3	328.5	4.8	26.0	3.5	355.
8.5	30.4	2519.8	750.0	17.0	-2.2	220.7	5.0	3.7	3.3	315.1	320.1	4.3	28.7	3.8	359.
9.6	33.0	2826.3	725.0	14.7	-10.8	252.4	5.0	4.8	1.5	315.6	322.0	2.3	14.1	3.9	3.
10.8	35.9	3121.9	700.0	12.7	-12.9	281.8	6.6	6.4	-1.3	316.5	322.9	2.0	15.5	4.0	8.
11.9	38.8	3425.2	675.0	10.0	-14.3	290.6	8.4	7.9	-3.0	316.8	322.7	1.9	16.5	3.9	16.
13.0	40.6	3737.0	650.0	7.0	-13.4	289.1	9.8	9.3	-3.0	316.8	323.4	2.1	21.7	3.9	25.
14.2	43.4	4057.4	625.0	4.0	-13.0	288.2	11.7	11.1	-3.6	317.1	324.2	2.2	27.6	4.1	36.
15.4	46.2	4387.2	600.0	0.9	-12.7	288.6	13.0	13.3	-4.0	317.1	324.6	2.4	38.2	4.5	47.
16.6	49.1	4727.5	575.0	-1.6	-12.0	288.8	12.9	12.2	-4.2	318.1	324.7	2.1	38.2	5.0	57.
17.9	51.9	5079.8	550.0	-4.2	-22.5	282.2	8.1	7.5	-3.1	319.1	322.8	1.1	22.4	5.6	64.
19.3	54.9	5445.4	525.0	-5.1	-36.8	283.7	4.2	4.1	-1.0	322.3	323.4	0.3	6.3	5.9	68.
20.9	57.9	5824.7	500.0	-7.9	-47.6	289.5	3.5	3.5	0.2	323.4	323.8	0.1	2.4	6.2	69.
22.3	60.9	6229.1	475.0	-12.4	-42.3	267.4	4.0	4.0	0.2	323.8	323.7	0.2	6.8	6.5	70.
23.9	64.1	6653.3	450.0	-15.1	-51.1	273.8	6.7	6.7	-0.3	326.3	326.6	0.1	2.8	6.9	71.
25.5	67.3	7062.2	425.0	-18.6	-52.8	267.9	9.7	9.7	0.4	329.1	329.4	0.1	3.4	7.7	73.
27.2	70.6	7510.9	400.0	-22.5	-59.4	271.3	11.1	11.1	-0.3	329.8	329.9	0.0	1.9	8.7	75.
29.0	74.1	7988.9	375.0	-26.1	-60.2	277.4	13.2	13.1	-1.7	327.0	327.1	0.0	2.4	10.0	78.
30.8	77.9	8475.2	350.0	-30.8	-59.6	272.3	15.9	15.9	-0.6	327.2	327.4	0.0	4.0	11.5	80.
32.9	81.7	8996.5	325.0	-35.4	-57.6	269.2	18.9	18.9	0.3	327.9	328.1	0.0	6.3	13.2	82.
34.6	85.6	9549.2	300.0	-39.9	99.9	273.2	20.4	20.3	-1.1	329.1	999.9	99.9	999.9	15.7	83.
36.7	89.7	10139.1	275.0	-43.3	99.9	282.6	23.8	23.3	-5.2	332.5	999.9	99.9	999.9	18.4	85.
39.0	94.2	10773.6	250.0	-47.5	99.9	282.3	26.4	25.8	-5.8	335.4	999.9	99.9	999.9	21.7	88.
41.7	98.9	11456.6	225.0	-50.9	99.9	283.0	27.7	27.0	-6.2	342.8	999.9	99.9	999.9	25.9	90.
44.5	104.0	12227.4	200.0	-55.2	99.9	284.1	27.7	26.9	-6.8	349.4	999.9	99.9	999.9	30.5	92.
47.4	109.8	13071.0	175.0	-60.4	99.9	276.1	26.5	26.3	-2.8	350.3	999.9	99.9	999.9	35.1	94.
50.4	115.5	14023.5	150.0	-63.7	99.9	281.7	21.2	20.8	-4.3	350.4	999.9	99.9	999.9	39.4	94.
53.9	122.7	15125.0	125.0	-70.2	99.9	279.4	15.0	14.8	-2.4	367.9	999.9	99.9	999.9	43.8	98.
58.1	130.3	16447.7	100.0	-69.7	99.9	294.6	12.3	11.2	-5.1	393.1	999.9	99.9	999.9	48.6	98.
63.9	139.8	18171.2	75.0	-66.6	99.9	197.7	3.2	1.0	3.1	433.3	999.9	99.9	999.9	47.7	94.
71.8	148.0	20691.3	50.0	-58.5	99.9	93.5	4.4	-4.4	0.3	489.6	999.9	99.9	999.9	48.3	98.
85.0	157.5	25184.8	25.0	-49.0	99.9	220.1	2.9	2.1	2.0	645.9	999.9	99.9	999.9	44.8	98.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 18 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 268
HICLAND, TEXAS

28 MAY 1977
1115 GMT

847 15. C

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.9	873.0	908.6	18.7	17.1	215.0	5.2	3.0	4.3	299.6	335.9	13.7	93.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	15.6	954.0	900.0	18.8	99.9	222.4	5.9	4.0	4.6	300.9	999.9	99.9	999.9	0.2	31.
1.3	17.9	1197.2	875.0	23.5	-4.4	231.9	10.8	8.7	6.4	308.2	317.7	3.2	15.6	0.7	48.
2.3	20.1	1450.8	850.0	24.5	-4.0	256.7	10.5	10.2	2.4	311.9	321.9	3.3	14.7	1.3	81.
3.2	22.7	1710.7	825.0	22.4	-6.0	274.7	11.7	11.7	-1.0	312.3	321.3	3.0	14.4	1.9	62.
4.2	25.2	1976.7	800.0	20.3	-7.0	283.6	13.1	12.8	-3.1	312.8	321.4	2.8	15.2	2.5	72.
5.3	27.9	2248.6	775.0	17.4	-8.8	289.8	13.9	13.1	-4.7	312.5	320.3	2.5	15.8	3.3	82.
6.4	33.2	2527.0	750.0	15.3	-9.5	289.0	14.2	13.5	-4.4	313.2	320 8	2.5	17.2	4.1	80.
7.6	32.9	2812.5	725.0	12.6	-8.8	279.5	13.7	13.6	-2.0	313.3	321.6	2.7	21.8	4.8	68.
8.5	35.5	3105.8	700.0	10.4	-7.5	273.3	13.9	13.9	-0.1	314.1	323.6	3.1	27.5	5.9	91.
9.8	38.2	3404.9	675.0	7.5	-9.0	260.8	13.6	13.5	2.2	314.0	323.5	3.1	32.3	6.9	90.
10.9	40.8	3710.4	650.0	5.1	-7.7	261.9	15.7	15.5	2.2	314.8	324.9	3.3	30.8	7.8	89.
12.0	43.7	4023.4	625.0	3.1	-9.2	267.4	17.5	17.4	0.8	316.0	325.4	3.0	29.8	8.8	88.
13.3	46.6	4344.9	600.0	0.8	-13.4	270.5	17.4	17.4	-0.1	317.1	324.2	2.3	22.7	10.4	88.
14.7	49.7	4675.6	575.0	-1.5	-23.7	275.6	13.7	13.7	-1.3	318.3	321.6	1.0	16.4	11.7	89.
16.0	52.5	5019.5	550.0	-1.6	-30.0	283.9	11.6	11.3	-2.8	322.2	324.2	0.6	9.2	12.7	90.
17.6	55.6	5378.1	525.0	-4.0	-25.7	289.9	10.1	9.5	-3.4	323.6	326.6	0.9	16.7	13.6	91.
19.0	58.8	5750.4	500.0	-7.2	-28.3	294.6	9.1	8.7	-3.8	324.2	326.8	0.7	16.8	14.4	92.
20.5	62.1	6137.5	475.0	-10.6	-27.3	288.7	9.9	8.4	-2.8	324.8	327.8	0.9	23.9	15.1	93.
21.9	65.4	6540.5	450.0	-15.2	-26.8	278.9	8.6	8.5	-1.3	324.9	328.1	0.9	34.8	15.8	94.
23.4	68.9	7060.4	425.0	-18.5	-27.6	269.1	7.9	7.9	0.1	325.3	328.4	0.9	44.8	16.6	94.
25.1	72.1	7499.1	400.0	-22.3	-31.1	253.1	7.8	7.5	2.3	326.1	328.8	0.7	44.3	17.3	93.
26.5	75.9	7959.9	375.0	-26.4	-35.5	256.0	9.0	8.7	2.2	326.6	328.3	0.5	41.7	18.0	92.
28.0	79.9	8456.6	350.0	-30.3	-42.3	271.6	10.0	10.0	-0.3	328.0	328.9	0.3	25.4	19.1	92.
30.4	83.7	8987.3	325.0	-34.7	-44.7	281.7	9.9	9.7	-2.0	328.9	329.7	0.2	24.8	20.2	92.
32.3	87.7	9561.1	300.0	-39.4	99.9	286.1	11.8	11.3	-3.3	329.8	999.9	99.9	999.9	21.4	93.
34.2	92.2	10189.3	275.0	-44.6	99.9	285.4	13.1	12.6	-3.5	330.6	999.9	99.9	999.9	22.7	94.
36.3	96.7	10862.3	250.0	-47.5	99.9	288.3	15.7	14.9	-4.9	335.4	999.9	99.9	999.9	24.4	95.
38.7	101.6	11580.9	225.0	-52.6	99.9	296.2	19.8	17.7	-8.7	337.9	999.9	99.9	999.9	26.9	96.
41.2	107.0	12357.1	200.0	-56.1	99.9	283.3	21.4	20.8	-4.9	344.0	999.9	99.9	999.9	29.8	98.
43.9	112.9	13045.3	175.0	-60.1	99.9	287.4	25.0	23.8	-7.8	350.8	999.9	99.9	999.9	33.4	99.
46.7	118.7	14002.3	150.0	-63.4	99.9	283.9	21.3	20.6	-5.1	360.9	999.9	99.9	999.9	37.6	99.
50.2	125.5	15118.2	125.0	-66.0	99.9	274.9	17.5	17.5	-1.5	375.5	999.9	99.9	999.9	41.7	100.
54.0	133.0	16366.6	100.0	-67.8	99.9	277.2	12.5	12.4	-1.6	396.8	999.9	99.9	999.9	45.5	99.
58.5	140.3	18212.0	75.0	-65.3	99.9	287.4	5.6	5.3	-1.7	436.2	999.9	99.9	999.9	47.5	99.
67.4	149.3	20739.9	50.0	-58.2	99.9	95.8	4.4	-4.4	0.4	506.4	999.9	99.9	999.9	45.2	100.
80.9	155.7	25199.4	25.0	-47.7	99.9	73.0	5.2	-5.0	-1.5	647.0	999.9	99.9	999.9	41.9	101.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

C-3

STATION NO. 327
NASHVILLE, TENNESSEE

28 MAY 1977
1100 GMT

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

162 18. 1

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	8.3	140.0	988.3	19.0	17.8	70.0	2.1	-2.0	-0.7	293.1	327.1	13.2	93.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	9.6	207.4	975.0	20.0	18.1	138.7	4.9	-4.5	5.2	296.1	331.5	13.6	84.7	0.3	300.
1.2	11.9	523.1	950.0	21.2	17.0	216.0	5.0	2.9	4.0	298.7	333.1	13.0	77.4	0.3	353.
2.2	14.4	753.9	925.0	19.5	14.4	144.8	3.6	0.3	3.6	299.3	329.3	11.3	72.3	0.5	1.
3.1	16.8	990.8	900.0	18.1	12.7	174.3	3.9	-0.4	3.8	300.2	328.0	10.4	76.9	0.7	0.
4.0	19.4	1231.0	875.0	16.3	11.3	169.3	3.9	-0.7	3.8	300.9	327.1	9.7	72.3	0.9	358.
4.9	21.9	1477.9	850.0	14.8	9.8	161.4	3.9	-1.2	3.6	301.7	326.3	9.0	72.1	1.1	356.
5.8	24.6	1729.8	825.0	12.8	8.8	154.2	3.6	-1.6	3.2	302.2	326.0	8.7	76.4	1.3	353.
6.8	27.1	1988.0	800.0	11.1	7.8	150.2	3.3	-1.2	3.1	302.9	326.0	8.4	80.8	1.5	351.
7.9	29.9	2252.8	775.0	8.9	6.8	162.3	3.3	-1.0	3.1	303.4	326.8	7.8	83.2	1.7	350.
8.9	32.8	2523.8	750.0	7.2	3.9	156.3	3.4	-1.4	3.1	304.4	323.4	6.9	79.8	1.9	349.
9.9	35.5	2802.6	725.0	5.7	3.5	151.2	3.8	-1.8	3.3	305.7	324.9	6.8	88.8	2.1	347.
10.9	38.3	3089.1	700.0	3.4	2.7	148.2	3.7	-1.9	3.1	306.2	325.0	6.7	95.2	2.4	345.
12.0	41.0	3383.7	675.0	1.4	0.9	150.4	3.3	-1.6	2.9	307.2	324.5	6.1	98.1	2.6	344.
13.1	44.1	3687.0	650.0	-0.7	-4.6	165.1	3.2	-3.8	3.1	308.2	320.4	4.2	74.7	2.8	343.
14.2	47.1	3998.7	625.0	-2.8	-6.6	170.3	3.0	-0.5	3.0	309.2	320.3	3.7	75.2	3.0	344.
15.4	50.2	4322.0	600.0	-5.4	-12.1	115.9	2.4	-2.2	1.1	309.9	317.7	2.6	61.6	3.2	344.
16.6	53.3	4657.4	575.0	-3.9	-34.3	62.1	4.7	-4.1	-2.2	315.4	316.7	0.4	7.3	3.1	339.
17.9	56.1	5004.2	550.0	-6.9	-36.0	67.9	5.6	-5.1	-2.1	316.0	317.1	0.3	7.6	3.1	332.
19.2	59.4	5367.3	525.0	-9.3	-37.5	88.1	3.4	-3.4	-0.1	317.3	318.3	0.3	7.9	3.2	328.
20.5	62.9	5743.6	500.0	-10.7	-38.4	115.7	2.0	-1.8	0.9	320.1	321.0	0.3	8.0	3.4	323.
22.1	66.3	6134.0	475.0	-13.5	-40.2	123.4	3.1	-2.6	1.7	321.3	322.2	0.2	8.3	3.5	322.
23.6	70.0	6544.3	450.0	-16.9	-42.5	109.1	4.6	-4.3	1.5	322.0	322.7	0.2	8.7	3.9	319.
25.3	73.9	6970.5	425.0	-20.4	-44.9	96.2	5.4	-5.4	0.6	322.9	323.4	0.2	9.1	4.3	315.
24.8	77.5	7416.6	400.0	-23.3	-46.8	90.6	4.4	-4.4	0.0	324.7	325.2	0.1	9.2	4.7	311.
28.6	81.3	7885.5	375.0	-26.9	-48.3	102.5	3.3	-3.2	0.7	326.0	326.4	0.1	9.9	5.0	308.
30.3	85.4	8379.2	350.0	-31.1	-52.2	158.7	1.1	-0.4	1.0	326.8	327.1	0.1	10.4	5.2	307.
32.1	89.8	8899.9	325.0	-35.2	-55.2	236.0	1.1	0.9	0.6	328.2	328.4	0.1	10.8	5.2	308.
34.4	94.4	9452.4	300.0	-39.9	99.9	264.1	2.6	2.4	1.0	329.3	999.9	99.9	999.9	5.1	310.
36.9	99.2	10040.3	275.0	-45.2	99.9	278.7	2.7	2.7	-0.4	329.7	999.9	99.9	999.9	4.9	314.
39.7	104.0	10659.5	253.0	-49.9	99.9	299.6	4.8	4.1	-2.4	332.0	999.9	99.9	999.9	4.5	318.
41.8	109.6	11350.7	225.0	-55.7	99.9	295.6	7.8	7.0	-3.3	333.8	999.9	99.9	999.9	3.8	321.
45.0	115.2	12093.3	200.0	-60.4	99.9	290.5	5.9	5.5	-2.1	336.9	999.9	99.9	999.9	2.4	327.
48.5	121.3	12914.4	175.0	-64.4	99.9	287.7	9.8	9.3	-3.0	343.7	999.9	99.9	999.9	1.9	8.
52.5	128.0	13840.8	150.0	-62.3	99.9	324.4	6.9	4.0	-5.6	362.8	999.9	99.9	999.9	2.0	81.
57.2	135.3	14895.0	125.0	-61.0	99.9	298.6	9.6	7.6	-6.1	384.6	999.9	99.9	999.9	3.6	98.
62.7	142.3	16075.0	100.0	-64.1	99.9	349.0	5.7	1.1	-5.6	404.0	999.9	99.9	999.9	5.6	116.
69.5	150.0	19141.7	75.0	-62.8	99.9	24.7	4.2	-1.7	-3.8	441.2	999.9	99.9	999.9	6.7	128.
78.7	158.0	20661.8	50.0	-57.3	99.9	77.0	7.2	-7.1	-1.6	508.4	999.9	99.9	999.9	8.5	153.
97.9	166.7	25141.6	25.0	-49.1	99.9	151.7	5.0	-2.4	4.4	643.8	999.9	99.9	999.9	4.6	216.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 340
LITTLE ROCK, ARKANSAS

28 MAY 1977
1100 GMT

153 11. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	ANGE KM	AZ DG
0.0	7.0	179.0	984.8	21.6	14.7	270.0	1.5	1.5	0.0	295.7	324.0	10.8	66.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	8.2	209.0	979.0	24.4	18.0	334.2	1.3	1.4	-2.9	299.7	335.4	13.4	67.4	0.2	82.
1.2	10.3	523.4	950.0	24.3	17.0	153.1	1.7	-0.8	1.5	301.9	336.6	12.9	63.6	0.1	70.
2.0	12.3	756.7	925.0	22.2	14.8	233.3	1.7	1.4	1.0	302.0	333.2	11.8	62.8	0.2	58.
2.8	14.5	934.6	900.0	20.2	13.7	254.3	2.0	1.9	0.5	302.3	332.3	11.1	66.3	0.2	60.
3	16.5	1237.3	875.0	17.9	12.1	277.2	1.6	1.6	-0.2	302.3	330.1	10.2	68.9	0.3	68.
4.6	18.8	1499.1	850.0	16.3	9.3	298.0	0.7	0.6	-0.3	303.2	327.1	8.7	63.3	0.4	73.
5.5	20.9	1738.7	825.0	14.9	5.6	290.5	1.0	0.9	-0.4	304.3	323.9	7.0	53.8	0.4	76.
6.4	23.1	1998.8	800.0	13.6	2.8	280.7	3.8	3.6	-1.2	305.6	322.3	5.9	48.2	0.5	82.
7.4	25.5	2245.7	775.0	11.8	1.4	299.6	4.8	4.2	-2.4	306.5	322.2	5.5	48.6	0.8	93.
8.2	27.8	2519.4	750.0	10.1	-0.4	321.5	4.4	2.8	-3.5	307.5	321.9	5.0	48.2	1.0	101.
9.3	30.4	2820.7	725.0	8.1	-3.7	335.3	4.5	1.9	-4.0	308.4	320.2	4.0	42.8	1.2	111.
10.2	32.9	3109.3	700.0	6.2	-6.5	323.0	5.4	3.2	-4.3	309.3	319.4	3.4	39.7	1.4	118.
11.2	35.4	3404.3	675.0	3.7	-4.9	304.4	7.4	6.1	-4.2	309.9	321.5	4.0	53.4	1.7	122.
12.1	38.0	3711.6	650.0	1.1	-5.2	295.1	9.6	8.7	-4.0	310.2	322.0	4.0	62.6	2.2	121.
13.1	40.5	4025.8	625.0	-1.5	-10.2	295.2	9.5	8.6	-4.1	310.7	319.3	2.8	51.6	2.8	119.
14.2	43.2	4349.8	600.0	-2.7	-35.8	297.9	7.1	6.3	-3.3	313.1	314.1	0.3	8.6	3.4	119.
15.5	46.1	4695.2	575.0	-5.0	-37.2	295.9	6.1	5.5	-2.7	314.1	315.0	0.3	8.8	3.9	116.
16.7	49.1	5033.4	550.0	-7.0	-39.1	298.4	8.5	7.5	-4.1	315.8	316.7	0.2	5.6	4.4	118.
17.9	51.9	5394.9	525.0	-8.3	-39.8	293.4	12.2	11.2	-4.9	318.5	319.3	0.2	8.7	5.1	118.
19.1	55.0	5771.6	500.0	-10.5	-42.1	286.5	13.8	13.3	-3.9	319.9	320.6	0.2	5.5	6.1	117.
20.5	58.0	6163.8	475.0	-13.5	-44.5	290.2	12.0	11.2	-4.1	321.3	321.9	0.1	5.2	7.2	115.
21.8	61.3	6577.3	450.0	-16.2	-42.6	298.9	10.4	9.1	-5.0	322.9	323.6	0.2	8.2	8.0	115.
23.4	64.7	7000.2	425.0	-19.5	-45.1	298.5	12.2	10.7	-5.8	323.6	324.1	0.2	8.4	9.0	116.
24.9	68.1	7447.2	400.0	-23.6	-48.2	292.3	14.0	13.0	-5.3	324.4	324.8	0.1	8.2	10.3	116.
26.5	71.6	7915.2	375.0	-27.7	-48.3	297.1	15.9	14.2	-7.3	325.0	325.4	0.1	11.9	11.7	115.
28.2	75.4	8407.3	350.0	-32.0	-50.1	299.0	16.1	14.1	-7.8	325.6	326.0	0.1	14.5	13.4	116.
30.0	79.5	8925.3	325.0	-36.9	-53.2	302.7	16.1	15.2	-5.8	325.8	326.1	0.1	16.4	15.2	116.
32.0	83.5	9474.9	300.0	-41.2	99.9	306.5	19.7	15.8	-11.7	327.3	999.9	99.9	999.9	17.4	117.
34.1	87.7	10059.9	275.0	-45.7	99.9	311.6	19.8	14.8	-13.1	329.1	999.9	99.9	999.9	19.8	119.
36.2	92.4	10689.3	250.0	-50.0	99.9	308.4	20.1	15.7	-12.4	331.8	999.9	99.9	999.9	22.3	120.
38.6	97.2	11370.9	225.0	-54.2	99.9	306.8	21.3	17.1	-12.8	335.4	999.9	99.9	999.9	25.4	121.
41.4	102.5	12120.4	200.0	-57.7	99.9	313.9	17.1	12.3	-11.9	342.3	999.9	99.9	999.9	28.6	122.
44.2	108.3	12960.7	175.0	-60.7	99.9	294.5	14.6	13.3	-6.1	350.8	999.9	99.9	999.9	31.1	123.
49.0	114.5	13926.1	150.0	-60.1	99.9	300.1	13.8	11.9	-6.9	366.6	999.9	99.9	999.9	34.4	121.
52.2	121.7	15053.4	125.0	-63.2	99.9	302.2	10.7	9.1	-5.7	380.7	999.9	99.9	999.9	37.0	122.
57.1	129.3	16426.7	100.0	-63.4	99.9	317.7	8.3	5.6	-6.2	405.3	999.9	99.9	999.9	40.3	122.
63.3	137.7	18192.9	75.0	-65.4	99.9	359.4	5.7	0.2	-5.7	435.8	999.9	99.9	999.9	41.6	123.
71.6	146.0	20699.2	50.0	-56.3	99.9	303.8	7.2	6.0	-4.0	510.8	999.9	99.9	999.9	40.8	127.
83.7	154.3	25154.4	25.0	-50.3	99.9	999.9	999.9	99.9	99.9	640.4	999.9	99.9	999.9	38.1	128.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 349
MONETT, MISSOURI

28 MAY 1977
1100 GMT

156 12. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	10.4	438.0	958.3	18.4	15.6	140.0	5.2	-1.8	4.9	295.1	325.9	11.8	84.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.8	11.0	512.9	950.0	19.4	15.7	215.6	8.1	4.7	6.6	296.9	328.3	11.9	79.4	0.4	18.
0.9	13.4	746.1	925.0	23.3	17.4	223.3	8.3	5.7	8.1	303.2	340.0	13.7	69.4	0.5	17.
1.7	15.9	985.1	900.0	21.6	15.4	231.7	9.5	7.4	5.9	303.7	337.3	12.4	68.2	0.9	33.
2.4	18.1	1229.1	875.0	19.5	15.5	239.7	9.6	8.3	4.8	304.0	338.7	12.8	77.7	1.3	40.
3.7	20.5	1479.5	850.0	17.2	14.6	245.2	8.8	8.0	3.7	304.1	337.8	12.4	84.7	1.8	47.
4.3	23.0	1733.1	825.0	15.0	13.2	252.6	7.7	7.4	2.3	304.5	336.3	11.7	88.6	2.2	51.
5.1	25.4	1993.9	800.0	13.1	11.4	262.4	7.9	7.9	1.0	305.1	334.5	10.7	89.8	2.6	55.
6.0	29.0	2260.6	775.0	11.2	9.7	268.7	6.8	6.8	0.1	305.8	333.8	9.8	90.7	3.0	59.
7.0	30.6	2534.3	750.0	9.2	7.8	267.6	6.2	6.2	0.3	306.5	331.4	8.9	91.3	3.3	62.
8.1	33.1	2814.8	725.0	6.7	5.4	254.7	5.8	5.6	1.5	306.8	328.8	7.8	91.3	3.6	64.
9.2	35.9	3102.8	700.0	5.2	3.7	248.4	7.9	7.2	3.2	308.2	328.5	7.2	90.2	4.0	68.
10.3	39.6	3399.6	675.0	3.7	-3.3	252.1	8.2	7.8	2.5	309.8	322.8	4.4	60.1	4.6	65.
11.4	41.2	3705.3	650.0	1.3	-5.2	255.1	8.4	8.1	2.1	310.5	322.4	4.0	61.9	5.3	66.
13.2	44.1	4019.4	625.0	-1.7	-6.0	259.0	9.5	9.3	1.8	310.5	322.2	3.9	72.4	6.0	68.
14.7	47.1	4343.3	600.0	-3.8	-13.1	265.4	12.2	12.2	1.0	311.8	318.9	2.3	48.3	7.0	70.
15.2	50.1	4678.4	575.0	-5.2	-18.5	267.0	12.3	12.3	0.6	313.9	318.8	1.8	34.2	8.1	72.
17.4	53.1	5025.8	550.0	-7.8	-22.8	262.8	11.2	11.1	1.5	314.8	318.5	1.1	28.8	9.0	74.
18.9	56.1	5386.1	525.0	-9.9	-17.6	257.5	12.0	11.8	2.6	316.5	322.4	1.8	53.4	9.9	74.
19.9	59.4	5761.0	500.0	-12.5	-19.7	251.6	13.5	12.8	4.3	317.8	323.0	1.6	54.6	10.7	74.
20.9	62.7	6151.6	475.0	-14.8	-23.9	252.8	14.3	11.7	3.6	319.7	323.5	1.2	48.4	11.5	74.
21.9	66.0	6557.9	450.0	-18.4	-25.3	256.2	11.7	11.4	2.8	320.1	323.7	1.1	54.4	12.2	74.
23.2	69.6	6983.2	425.0	-20.5	-24.5	254.6	14.3	13.8	3.8	322.7	326.8	1.2	69.7	13.2	74.
24.5	73.0	7429.4	400.0	-23.4	-27.1	248.7	18.4	17.2	6.7	324.6	328.1	1.0	71.2	14.5	74.
26.0	76.8	7899.8	375.0	-26.2	-29.6	249.4	20.9	19.6	7.3	326.9	329.9	0.9	73.1	16.3	73.
27.8	80.6	8395.3	350.0	-29.2	-33.8	256.6	20.8	20.2	4.8	329.4	331.7	0.6	64.2	18.4	73.
29.5	84.7	8921.3	325.0	-32.9	-39.2	262.8	20.0	19.9	2.5	331.3	332.8	0.4	53.0	20.6	74.
31.2	88.9	9479.0	300.0	-37.8	-43.1	275.0	13.6	13.6	-1.2	332.2	333.2	0.3	56.8	22.1	75.
32.9	93.4	10073.2	275.0	-42.5	99.9	295.9	15.5	13.9	-6.8	333.7	999.9	99.9	999.9	23.4	77.
34.7	98.0	10709.0	250.0	-47.9	99.9	292.1	18.2	16.8	-6.8	334.8	999.9	99.9	999.9	24.7	79.
36.3	103.0	11394.1	225.0	-54.4	99.9	289.3	23.6	22.3	-7.8	335.2	999.9	99.9	999.9	26.5	81.
39.4	108.5	12139.1	200.0	-60.8	99.9	291.4	22.6	21.0	-8.2	336.5	999.9	99.9	999.9	29.5	85.
40.4	114.3	12968.8	175.0	-60.4	99.9	286.1	14.5	13.9	-4.0	350.3	999.9	99.9	999.9	31.2	86.
43.5	120.8	13935.4	150.0	-59.0	99.9	277.5	11.2	11.1	-1.5	366.4	999.9	99.9	999.9	33.7	87.
47.4	128.8	15074.4	125.0	-60.6	99.9	280.1	13.0	12.8	-2.3	385.2	999.9	99.9	999.9	36.1	88.
51.8	136.0	16442.6	100.0	-65.1	99.9	331.5	8.1	3.9	-7.1	401.9	999.9	99.9	999.9	38.8	90.
57.5	143.7	18211.5	75.0	-63.8	99.9	25.9	2.6	-1.1	-2.3	439.2	999.9	99.9	999.9	38.8	91.
65.3	152.3	20727.3	50.0	-58.8	99.9	79.8	6.2	-6.1	-1.1	505.1	999.9	99.9	999.9	37.2	93.
76.9	161.8	25178.7	25.0	-82.6	99.9	999.9	999.9	99.9	99.9	633.4	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

ORIGINAL PAGE IS
OF POOR QUALITY

STATION NO. 363
AMARILLO, TEXAS

28 MAY 1977
1212 GMT

154 16. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.2	1094.0	881.0	13.3	6.2	300.0	4.2	3.6	-2.1	296.8	315.2	6.8	62.0	0.0	0.
99.0	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.0	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.0	99.0	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	900.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	16.9	1171.4	875.0	18.6	-2.7	345.0	6.0	1.6	-5.8	303.1	313.7	3.7	25.3	0.2	100.
1.2	19.4	1422.8	850.0	23.1	-3.1	334.2	10.6	4.6	-9.5	310.3	321.0	3.6	17.3	0.6	140.
2.2	21.6	1681.2	825.0	20.6	-3.7	322.8	8.9	5.4	-7.1	310.4	320.9	3.5	19.1	1.2	145.
3.2	23.9	1945.9	800.0	19.1	-4.5	307.5	7.2	5.7	-4.4	311.5	321.8	3.4	19.7	1.7	142.
4.2	26.2	2217.7	775.3	17.5	-6.1	296.3	7.4	7.1	-2.1	312.7	322.2	3.1	19.3	2.1	138.
5.2	28.9	2495.6	750.0	15.2	-7.6	279.6	9.5	9.5	-0.1	313.1	321.9	2.9	19.9	2.5	130.
6.2	31.2	2781.5	725.0	12.8	-8.7	266.4	10.8	10.8	0.7	313.5	321.9	2.7	21.5	3.0	122.
7.2	33.4	3074.4	700.0	10.0	-8.6	264.9	11.1	11.1	1.0	313.5	322.2	2.8	26.0	3.5	115.
8.2	36.2	3374.7	675.0	6.7	-10.1	267.1	12.3	12.3	0.6	313.1	321.2	2.6	25.1	4.2	110.
9.2	39.0	3683.9	650.0	4.1	-9.3	263.5	12.3	12.2	1.4	313.6	322.5	2.9	36.9	4.9	106.
10.5	41.5	4000.2	625.0	1.6	-13.1	266.3	11.5	11.4	0.7	314.3	321.2	2.2	32.6	5.7	103.
11.4	44.5	4324.5	600.0	0.4	-21.5	261.1	10.4	10.3	1.6	316.5	320.2	1.1	17.1	6.5	101.
12.3	47.4	4660.1	575.0	-1.7	-24.0	247.8	11.1	10.3	4.2	318.1	321.2	0.9	16.2	7.2	98.
13.4	50.4	5010.9	550.0	-3.5	-22.7	257.6	11.7	11.5	2.5	319.9	323.7	1.1	20.9	8.0	95.
14.6	53.4	5377.1	525.0	-5.5	-23.2	259.2	14.9	14.7	2.8	321.8	325.5	1.1	23.1	9.1	93.
15.9	56.4	5757.8	500.0	-8.4	-24.2	259.7	16.9	16.6	3.0	322.9	326.4	1.1	26.5	10.5	91.
17.3	59.6	6157.3	475.0	-11.8	-26.7	268.6	17.8	17.8	0.4	323.4	326.5	0.9	27.5	11.9	90.
18.6	62.8	6574.7	450.0	-14.9	-28.7	275.4	18.3	18.2	-1.7	324.5	327.2	0.8	29.5	13.4	91.
20.1	66.3	7014.4	425.0	-18.6	-30.9	277.6	19.8	19.7	-2.6	325.1	327.5	0.7	32.6	15.2	91.
21.8	69.8	7477.6	400.0	-23.0	-33.8	277.7	21.8	21.6	-2.9	325.1	327.0	0.5	36.2	17.5	92.
23.7	73.7	7965.6	375.0	-26.7	-37.6	280.3	22.6	22.2	-3.9	326.2	327.6	0.4	34.7	20.0	93.
25.8	77.7	8482.5	350.0	-30.7	-42.3	282.6	21.4	20.8	-4.7	327.4	328.4	0.3	30.6	22.5	94.
27.9	77.7	8414.4	350.0	-30.7	-46.0	283.1	20.3	19.8	-4.6	328.8	329.5	0.2	30.5	25.1	95.
29.4	81.7	8978.7	325.0	-34.7	-50.4	282.8	19.7	18.1	-7.6	329.7	330.2	0.1	25.6	27.3	96.
31.3	85.9	9581.7	300.0	-39.5	99.9	284.0	23.1	21.1	-9.4	331.8	999.9	99.9	999.9	29.9	96.
33.4	90.5	10241.6	275.0	-43.8	99.9	287.9	22.9	21.8	-7.0	333.3	999.9	99.9	999.9	32.7	99.
35.8	95.4	10715.0	250.0	-48.6	99.9	293.7	24.0	23.5	-8.5	335.7	999.9	99.9	999.9	36.0	100.
38.6	100.5	11398.9	225.0	-54.0	99.9	292.9	25.5	23.5	-9.9	338.4	999.9	99.9	999.9	39.9	101.
40.7	104.9	12143.9	200.0	-59.5	99.9	291.2	25.9	25.9	-0.5	349.2	999.9	99.9	999.9	43.8	101.
43.4	113.7	12579.4	175.0	-61.1	99.9	279.9	23.0	22.7	-3.9	364.0	999.9	99.9	999.9	46.4	100.
44.8	119.0	13033.6	150.0	-61.6	99.9	272.7	16.4	16.4	-0.8	377.7	999.9	99.9	999.9	53.4	101.
50.6	126.7	15051.8	125.0	-64.8	99.9	263.0	12.6	12.5	1.8	405.6	999.9	99.9	999.9	57.4	99.
55.4	135.1	16417.7	100.0	-63.3	99.9	271.7	5.5	2.6	-4.9	440.0	999.9	99.9	999.9	60.1	98.
60.8	144.	19176.4	75.0	-63.4	99.9	[illegible].2	6.4	-5.8	-2.8	506.4	999.9	99.9	999.9	59.0	99.
54.2	153.3	20713.6	50.0	-58.2	99.9	[illegible].2	6.0	-6.0	-0.4	637.9	999.9	99.9	999.9	55.2	100.
79.9	163.7	25152.1	25.0	-51.2	99.9	[illegible].2									

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
= BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 433
SALEM, ILLINOIS

28 MAY 1977
1100 GMT

157 13. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.7	175.0	987.5	17.0	13.9	140.0	1.6	-1.0	1.2	291.2	317.6	10.2	82.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	9.8	286.1	975.0	24.3	15.2	999.9	999.9	99.9	99.9	299.6	329.8	11.3	66.6	999.9	999.
1.3	10.8	517.9	950.0	23.8	13.6	999.9	999.9	99.9	99.9	301.3	329.5	10.4	52.9	999.9	999.
2.1	12.9	744.5	925.0	22.0	9.7	999.9	999.9	99.9	99.9	301.8	324.4	8.2	45.6	0.5	42.
2.9	15.1	993.8	900.0	19.7	8.7	212.5	3.6	1.9	3.0	301.8	323.5	7.9	49.3	0.7	41.
3.7	17.1	1225.8	875.0	17.7	8.3	201.1	4.0	1.5	3.8	302.1	323.8	7.9	54.2	0.9	38.
4.8	19.4	1471.2	850.0	15.7	7.7	208.2	5.3	2.5	4.7	302.6	324.0	7.8	59.0	1.1	34.
5.6	21.5	1725.2	825.0	13.9	6.5	216.2	5.9	3.5	4.8	303.3	323.9	7.4	60.9	1.5	34.
6.6	23.8	1985.1	800.0	11.9	5.1	218.3	5.1	3.2	4.0	303.8	323.1	6.9	63.2	1.8	35.
7.7	26.0	2249.9	775.0	9.5	4.7	222.6	4.1	2.7	3.0	304.0	323.4	6.9	71.9	2.1	35.
8.8	29.5	2521.3	750.0	8.1	-14.2	232.2	2.7	2.1	1.6	305.4	310.6	1.7	19.1	2.3	37.
9.9	31.0	2799.9	725.0	6.5	-21.2	200.0	2.4	0.8	2.3	306.6	309.7	1.0	11.6	2.4	37.
10.9	33.6	3086.2	700.0	4.0	-17.7	145.6	7.0	-3.9	5.8	306.9	311.1	1.4	18.8	2.6	35.
12.0	36.0	3380.6	675.0	2.5	-29.6	120.3	14.4	-12.4	7.3	308.4	310.0	0.5	7.1	2.6	13.
13.0	38.7	3684.9	650.0	1.8	-44.3	257.9	11.3	11.0	2.4	311.0	311.5	0.1	2.1	2.7	12.
14.1	41.2	3999.9	625.0	-0.0	-45.3	216.1	6.2	3.6	5.0	312.4	312.8	0.1	1.7	2.8	29.
15.0	44.0	4325.2	600.0	-2.0	-42.7	171.1	4.0	-0.6	3.9	313.9	314.4	0.1	2.6	3.0	25.
15.2	44.9	4661.6	575.0	-4.5	-47.6	192.7	3.0	0.7	3.0	314.7	315.1	0.1	1.8	3.2	23.
17.5	49.9	5010.2	550.0	-6.6	-46.1	214.9	4.2	2.4	3.5	316.3	316.7	0.1	2.6	3.5	24.
18.9	52.4	5372.9	525.0	-8.0	-44.1	208.9	5.8	2.8	5.1	318.9	319.4	0.1	3.5	3.9	25.
20.0	55.7	5749.9	500.0	-11.1	-42.7	200.2	6.0	2.1	5.6	319.5	320.1	0.2	5.4	4.3	25.
21.6	58.9	6141.2	475.0	-14.4	-39.8	191.3	5.8	1.1	5.7	320.2	321.1	0.2	6.4	4.7	24.
23.0	62.1	6548.6	450.0	-17.2	-42.6	192.5	5.9	1.3	5.8	321.7	322.4	0.2	7.8	5.3	22.
24.5	65.6	6975.5	425.0	-19.7	-43.6	210.7	6.6	3.4	5.7	323.7	324.4	0.2	9.8	5.9	22.
26.1	69.1	7422.4	400.0	-23.1	-29.1	214.2	8.8	4.9	7.2	325.0	327.9	0.9	57.2	6.6	24.
27.6	72.7	7891.5	375.0	-27.0	-32.3	207.6	9.6	4.5	8.5	325.9	328.2	0.7	60.6	7.4	25.
29.2	76.5	8385.0	350.0	-31.7	-36.1	203.0	10.9	4.2	10.0	326.5	328.3	0.5	62.6	8.4	25.
31.2	80.6	8905.6	325.0	-35.6	-40.4	198.0	11.4	3.5	10.8	327.6	328.8	0.3	61.4	9.7	24.
33.4	85.0	9456.8	300.0	-40.5	99.9	198.2	9.0	2.8	8.5	328.3	999.9	99.9	999.9	11.1	23.
35.5	89.2	10045.6	275.0	-44.5	99.9	211.8	8.0	4.2	6.8	330.9	999.9	99.9	999.9	12.1	23.
37.8	94.0	10676.1	250.0	-49.5	99.9	215.8	8.4	4.9	6.8	332.5	999.9	99.9	999.9	13.2	25.
40.4	99.0	11359.9	225.0	-53.9	99.9	214.2	8.0	4.5	6.6	336.1	999.9	99.9	999.9	14.5	25.
43.3	104.5	12107.8	200.0	-58.7	99.9	221.5	7.6	5.2	5.5	339.8	999.9	99.9	999.9	15.8	26.
46.2	110.4	12940.0	175.0	-62.3	99.9	267.9	9.1	9.1	0.3	347.1	999.9	99.9	999.9	17.0	29.
49.7	116.9	13892.0	150.0	-59.4	99.9	298.0	6.7	5.9	-3.2	367.8	999.9	99.9	999.9	17.3	34.
54.0	124.3	15078.5	125.0	-60.7	99.9	316.5	7.0	4.8	-5.1	385.0	999.9	99.9	999.9	17.6	40.
59.8	132.3	16619.2	100.0	-60.3	99.9	341.9	3.8	1.2	-3.6	411.3	999.9	99.9	999.9	16.8	44.
65.1	141.0	18701.4	75.0	-62.1	99.9	30.9	4.0	-2.1	-3.4	442.8	999.9	99.9	999.9	16.3	47.
73.2	149.7	20737.2	50.0	-56.2	99.9	71.4	6.6	-6.2	-2.1	511.2	999.9	99.9	999.9	14.1	45.
85.9	159.0	25214.3	25.0	-49.2	99.9	999.9	999.9	99.9	99.9	643.3	999.9	99.9	999.9	11.6	27.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 451
DODGE CITY, KANSAS

28 MAY 1977
1115 GMT

154 11. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	13.6	791.0	915.4	17.8	14.5	90.0	4.2	-4.2	0.0	298.4	328.8	11.4	81.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	15.1	937.9	900.0	20.5	19.2	194.9	3.4	0.9	3.3	302.7	344.9	15.8	92.1	0.5	280.
1.4	17.2	1191.7	875.0	19.3	17.4	149.1	5.6	-2.9	4.8	303.8	342.9	14.5	85.3	0.6	295.
2.3	19.6	1447.4	850.0	19.7	14.3	138.7	6.2	-4.1	4.6	306.8	340.4	12.2	71.1	0.9	306.
3.2	21.9	1689.5	825.0	17.6	12.7	133.7	7.2	-5.2	5.0	307.2	338.5	11.3	72.9	1.3	308.
4.1	24.4	1952.5	800.0	15.3	11.4	142.7	8.0	-4.9	6.4	307.5	337.0	10.7	77.3	1.7	310.
4.9	26.7	2221.1	775.0	12.8	10.1	152.7	9.2	-3.8	7.3	307.6	335.7	10.1	83.5	2.1	313.
5.9	29.3	2496.2	750.0	10.5	7.4	162.2	7.7	-2.3	7.3	308.0	332.4	8.7	81.5	2.5	316.
7.0	31.9	2778.1	725.0	8.2	4.8	178.4	9.0	-0.2	8.0	308.4	329.6	7.5	79.1	2.9	322.
7.9	34.5	3067.6	700.0	6.8	-2.3	200.5	9.2	3.2	8.6	310.0	323.6	4.6	82.2	3.3	328.
9.0	37.0	3365.8	675.0	5.8	-8.9	227.3	9.2	6.8	6.3	312.1	320.9	2.9	33.8	3.6	338.
10.0	39.8	3677.6	650.0	3.8	-11.1	233.6	9.0	7.2	5.3	313.3	321.0	2.5	32.7	3.8	346.
11.2	42.4	3999.8	625.0	0.8	-11.8	239.5	7.8	6.8	4.0	313.4	321.1	2.5	38.1	4.0	354.
12.4	45.1	4317.2	600.0	-2.2	-11.9	239.6	7.4	6.3	3.8	313.6	321.5	2.6	47.2	4.2	1.
13.4	48.2	4657.5	575.0	-5.3	-12.9	241.6	7.7	6.8	3.7	313.8	321.4	2.5	55.2	4.5	7.
14.7	51.3	5000.5	550.0	-9.2	-17.6	235.2	10.0	8.2	5.7	314.4	319.9	1.7	46.3	4.9	12.
15.9	54.1	5340.4	525.0	-10.8	-21.5	233.8	13.9	11.2	8.2	315.4	319.6	1.3	40.6	5.6	18.
17.2	57.0	5774.4	500.0	-12.3	-23.0	247.8	16.5	15.3	6.2	318.0	321.9	1.2	40.4	6.5	24.
18.6	60.3	6134.9	475.0	-14.8	-26.0	259.3	19.6	18.2	3.8	319.7	322.9	1.0	37.7	7.5	33.
20.0	63.7	6522.8	450.0	-16.8	-32.8	258.4	20.2	19.8	4.1	322.1	324.0	0.5	23.3	8.7	41.
21.4	66.9	6950.4	425.0	-20.3	-36.2	262.7	21.3	21.1	2.7	323.0	324.4	0.4	22.4	10.2	47.
23.1	70.4	7406.0	400.0	-23.5	-40.8	265.6	23.2	23.1	1.8	324.5	325.4	0.3	18.5	12.1	54.
24.9	74.0	7877.4	375.0	-28.1	-43.8	271.2	22.2	22.2	-0.5	324.5	325.2	0.2	20.3	14.2	59.
25.4	77.8	8364.6	350.0	-32.3	-44.7	276.8	24.9	24.7	-3.0	325.2	326.0	0.2	27.5	16.1	64.
28.	81.7	8893.2	325.0	-36.3	-48.6	280.9	29.2	28.7	-5.4	326.7	327.3	0.1	26.5	18.6	69.
30.3	85.7	9437.7	300.0	-40.6	99.9	279.1	33.5	33.1	-5.3	328.1	999.9	99.9	999.9	21.7	74.
32.0	90.0	10013.3	275.0	-46.1	99.9	280.3	34.1	33.5	-6.1	328.5	999.9	99.9	999.9	25.1	77.
34.3	94.7	10646.4	250.0	-50.9	99.9	286.3	33.2	31.9	-9.3	330.4	999.9	99.9	999.9	29.1	81.
36.6	99.4	11323.9	225.0	-55.7	99.9	284.4	32.4	31.4	-8.1	333.2	999.9	99.9	999.9	33.2	85.
38.8	104.5	12071.3	200.0	-57.0	99.9	278.6	29.2	28.9	-4.4	342.5	999.9	99.9	999.9	37.5	87.
41.4	110.4	12907.3	175.0	-61.1	99.9	269.6	27.8	27.8	0.2	349.1	999.9	99.9	999.9	42.0	87.
44.9	116.5	13871.4	150.0	-55.7	99.9	273.5	15.0	15.0	-0.9	374.2	999.9	99.9	999.9	46.7	88.
48.7	123.7	15015.9	125.0	-63.1	99.9	251.8	10.4	9.8	3.2	380.8	999.9	99.9	999.9	48.3	87.
53.3	131.7	16333.8	100.0	-62.3	99.9	236.7	8.5	7.1	4.7	407.4	999.9	99.9	999.9	51.6	87.
58.9	140.3	18154.3	75.0	-64.0	99.9	248.5	3.3	3.3	0.1	438.8	999.9	99.9	999.9	51.8	86.
65.5	153.0	20696.4	50.0	-59.8	99.9	112.2	6.6	-6.1	2.5	505.0	999.9	99.9	999.9	50.5	86.
79.5	160.5	25126.7	25.0	-52.1	99.9	999.9	999.9	99.9	99.9	635.2	999.9	99.9	999.9	44.8	86.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 456
TOPEKA, KANSAS

28 MAY 1977
1100 GMT

154 45. C

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	.6	369.0	975.0	17.9	16.7	180.0	4.2	0.0	4.2	293.1	325.0	12.4	93.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.9	10.9	491.4	950.0	19.4	11.8	219.3	3.5	2.2	2.7	296.8	321.4	9.2	61.9	0.5	171.
1.7	13.1	720.5	925.0	18.3	11.4	237.0	3.5	2.9	1.9	298.1	322.7	9.2	63.8	0.4	151.
2.5	15.3	955.4	900.0	17.5	9.8	255.3	5.0	4.9	1.3	299.5	322.6	8.5	60.6	0.4	128.
3.3	17.5	1195.9	875.0	16.1	8.9	268.1	6.1	6.1	0.2	300.5	322.9	8.2	62.5	0.7	111.
4.1	20.0	1442.0	850.0	14.9	5.0	256.4	5.1	5.0	1.2	301.8	319.7	6.5	51.5	1.0	103.
5.0	22.2	1694.7	825.0	14.0	3.4	249.0	3.5	3.3	1.3	303.4	320.1	5.9	48.8	1.1	97.
5.9	24.9	1953.5	800.0	11.9	2.5	257.5	4.5	4.4	1.0	303.9	320.1	5.8	52.5	1.3	93.
6.9	27.1	2218.6	775.0	10.4	1.5	289.7	4.4	4.2	-1.5	305.1	320.8	5.5	54.0	1.6	92.
7.9	29.9	2490.5	750.0	8.2	0.3	310.4	3.9	3.0	-2.5	305.5	320.5	5.2	57.2	1.8	96.
8.9	32.6	2770.1	725.0	6.0	-1.0	315.5	3.7	2.2	-2.3	306.0	320.1	4.9	60.6	2.0	100.
9.9	35.2	3056.6	700.0	3.3	-1.2	329.2	2.8	1.4	-2.4	306.2	320.6	5.0	72.1	2.1	103.
11.0	37.9	3350.8	675.0	0.8	-1.5	345.9	3.5	0.9	-3.4	306.5	321.2	5.1	84.9	2.2	107.
12.0	40.6	3653.5	650.0	-0.9	-3.1	339.0	6.0	2.1	-5.6	308.0	321.6	4.7	84.6	2.4	113.
13.0	43.5	3965.6	625.0	-3.4	-5.0	326.3	9.4	5.2	-7.8	308.6	320.9	4.2	88.7	2.8	119.
14.1	46.5	4288.3	600.0	-4.9	-8.4	319.0	10.9	7.1	-8.2	310.5	320.6	3.4	76.4	3.4	124.
15.2	49.6	4622.0	575.0	-6.5	-10.6	301.1	10.6	9.1	-5.5	312.3	321.3	3.0	73.6	4.1	125.
16.5	52.6	4968.5	550.0	-8.4	-26.9	289.2	10.7	10.1	-3.5	314.1	316.7	0.8	20.7	4.9	123.
17.7	55.8	5327.5	525.0	-10.9	-51.7	288.0	10.3	9.8	-3.2	315.5	315.9	0.1	3.6	5.7	121.
19.0	59.0	5700.8	500.0	-12.2	-57.7	286.0	12.3	11.8	-3.4	318.1	318.2	0.0	1.0	6.5	119.
20.3	62.3	6091.4	475.0	-14.3	-59.0	280.1	16.4	16.1	-2.9	320.3	320.4	0.0	1.0	7.6	117.
21.7	65.9	6499.2	450.0	-16.7	-60.6	274.1	17.7	17.7	-1.3	322.2	322.3	0.0	1.0	9.0	114.
23.3	69.7	6925.0	425.0	-20.9	-63.3	273.0	17.5	17.5	-0.9	322.1	322.2	0.0	1.0	10.5	111.
24.9	73.9	7370.0	400.0	-24.7	-65.7	274.0	18.6	18.6	-1.3	322.9	323.0	0.0	1.0	12.1	108.
26.4	77.3	7834.0	375.0	-28.9	-65.2	272.7	20.3	20.3	-1.0	323.3	323.4	0.0	1.0	13.9	106.
27.9	81.3	8324.7	350.0	-33.3	-38.0	257.0	16.4	15.9	3.7	323.8	325.3	0.4	62.2	15.7	104.
29.6	85.6	8844.1	325.0	-35.0	-38.6	217.3	14.0	8.5	11.2	328.4	329.9	0.4	69.4	16.6	101.
31.4	90.2	9396.5	300.0	-39.9	99.9	196.9	15.1	4.4	14.5	329.2	999.9	99.9	999.9	17.1	96.
33.4	95.1	9984.7	275.0	-44.9	99.9	190.4	16.3	2.9	16.1	330.2	999.9	99.9	999.9	17.3	90.
35.4	100.2	10617.4	250.0	-50.9	99.9	198.7	21.9	7.0	20.8	330.6	999.9	99.9	999.9	18.0	83.
37.7	105.7	11291.2	225.0	-56.2	99.9	200.4	25.9	9.1	24.3	332.4	999.9	99.9	999.9	19.8	74.
40.2	111.9	12032.7	200.0	-59.8	99.9	223.3	23.7	19.0	14.2	334.2	999.9	99.9	999.9	22.7	67.
43.2	117.3	12856.3	175.0	-56.9	99.9	265.9	17.6	17.5	1.3	355.9	999.9	99.9	999.9	26.7	68.
44.8	124.7	13840.5	150.0	-55.4	99.9	269.4	9.8	9.8	0.3	367.8	999.9	99.9	999.9	28.9	70.
51.7	132.7	14990.3	125.0	-60.2	99.9	280.2	8.7	8.6	-1.5	385.9	999.9	99.9	999.9	31.5	72.
56.1	140.3	15941.1	100.0	-64.3	99.9	284.6	3.7	3.6	-0.9	403.6	999.9	99.9	999.9	32.7	73.
62.9	149.0	19127.2	75.0	-64.4	99.9	138.2	3.7	-2.4	2.7	437.9	999.9	99.9	999.9	33.4	74.
72.1	159.0	20645.8	50.0	-57.5	99.9	78.3	4.5	-4.4	-0.9	508.0	999.9	99.9	999.9	31.1	73.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 532
PEORIA, ILLINOIS

28 MAY 1977
1100 GMT

161 14. 1

ANGLES ON THE HALF MINUTE HAVE BEEN LINEARLY INTERPOLATED FROM WHOLE MINUTE VALUES

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	7.5	300.0	984.0	17.8	11.1	250.0	2.6	2.4	0.9	292.3	314.6	8.5	65.0	0.0	0.
0.1	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	7.5	279.4	975.3	22.0	14.1	44.6	3.4	-2.4	-2.4	297.3	325.2	10.5	60.9	0.4	43.
1.0	10.1	606.1	940.0	22.2	15.5	208.4	3.5	3.1	-1.6	300.4	332.0	11.8	63.4	0.3	57.
1.1	13.1	778.2	915.0	21.7	14.0	251.4	5.9	5.6	1.9	301.1	330.5	10.9	63.1	0.6	64.
2.0	16.4	975.2	890.0	19.4	13.4	243.5	5.8	5.0	2.9	301.5	330.7	10.8	68.2	0.9	65.
2.1	19.4	1217.5	855.0	17.8	12.0	224.9	7.5	5.3	5.3	302.3	329.9	10.1	68.7	1.2	62.
3.0	13.7	1435.1	830.0	15.6	10.3	214.7	7.5	4.3	6.2	302.5	327.9	9.3	70.6	1.6	56.
3.1	20.9	1719.1	795.0	13.6	4.1	208.8	7.4	3.6	6.5	303.0	325.8	8.3	65.3	1.9	52.
4.0	23.2	1976.8	760.0	11.1	8.3	208.7	5.6	2.7	5.0	303.0	326.6	8.6	82.0	2.3	47.
4.1	25.6	2241.4	725.0	8.7	6.3	208.4	5.7	2.3	5.3	303.2	325.4	8.1	88.2	2.6	44.
5.0	28.0	2513.2	690.0	6.5	5.4	213.0	4.9	2.7	4.1	304.8	324.7	7.5	91.6	2.9	42.
5.1	30.5	2790.7	655.0	5.1	4.0	223.8	5.0	3.7	3.3	305.0	324.0	7.1	93.1	3.1	42.
6.0	33.2	3077.1	620.0	4.1	1.2	234.2	5.7	4.6	3.3	307.0	324.1	6.0	81.9	3.5	44.
6.1	35.7	3373.0	585.0	3.0	-1.6	214.6	5.2	2.9	4.2	309.0	323.5	5.0	70.8	3.8	44.
7.0	38.4	3678.2	550.0	1.9	-8.5	189.7	5.0	0.9	5.9	311.1	320.5	3.1	46.4	4.1	42.
7.1	41.1	3993.6	515.0	0.6	-13.5	181.1	6.5	0.1	6.5	313.0	317.1	1.2	20.1	4.4	38.
8.0	44.0	4319.4	480.0	-2.0	-24.7	184.8	7.4	0.5	7.4	313.9	315.0	0.3	6.0	4.8	35.
8.1	46.9	4656.0	445.0	-4.8	-19.8	195.8	7.7	2.1	7.4	314.4	318.9	1.4	30.8	5.3	32.
9.0	50.0	5003.2	410.0	-6.7	-23.8	207.7	9.3	4.3	8.3	316.1	319.4	1.0	24.1	5.8	32.
9.1	53.3	5366.4	375.0	-8.5	-19.7	209.0	12.3	6.1	11.4	318.3	323.3	1.6	41.0	6.7	31.
10.0	56.8	5743.2	340.0	-11.0	-21.2	203.7	14.8	6.0	13.6	319.7	324.2	1.4	42.4	7.9	31.
10.1	59.9	6136.2	305.0	-14.7	-24.1	198.4	14.2	4.6	13.5	320.2	324.0	1.1	43.1	9.2	29.
11.0	63.7	6549.7	270.0	-17.7	-24.0	197.5	14.1	4.3	13.5	320.9	325.0	1.2	58.8	10.3	28.
11.1	66.9	6983.9	235.0	-20.0	-24.0	198.5	13.7	4.5	13.0	323.4	327.7	1.3	65.8	11.5	27.
12.0	69.8	7438.7	200.0	-24.3	-26.4	197.8	13.4	4.0	12.8	323.4	327.1	1.1	83.0	12.7	26.
12.1	73.1	7923.1	165.0	-28.0	-33.6	197.0	14.0	4.1	13.3	324.5	328.7	0.6	56.8	13.9	25.
13.0	77.4	8439.5	130.0	-32.2	-38.1	207.7	14.3	5.8	13.1	325.4	328.8	0.4	55.0	15.3	25.
13.1	81.3	8992.9	95.0	-35.8	-33.7	213.5	12.4	6.9	10.3	327.3	328.6	0.4	67.3	16.7	25.
14.0	86.7	9583.5	60.0	-40.4	99.9	202.3	8.9	3.4	8.3	328.4	999.9	99.9	999.9	17.9	26.
14.1	93.3	10217.4	25.0	-45.3	99.9	204.4	10.0	4.1	9.1	329.6	999.9	99.9	999.9	19.1	25.
15.0	98.2	10869.0	20.0	-49.4	99.9	224.2	9.3	6.9	6.2	332.7	999.9	99.9	999.9	20.4	26.
15.1	103.3	11535.7	15.0	-54.2	99.9	221.4	10.2	8.0	6.4	335.4	999.9	99.9	999.9	21.7	28.
16.0	105.8	12050.7	13.0	-49.2	99.9	225.0	9.9	7.0	7.0	337.4	999.9	99.9	999.9	23.3	29.
16.1	111.9	12914.6	10.0	-49.8	99.9	240.3	9.6	9.0	3.4	344.7	999.9	99.9	999.9	25.2	31.
17.0	118.3	13871.8	8.0	-59.0	99.9	268.4	4.7	4.7	0.1	368.5	999.9	99.9	999.9	25.3	32.
17.1	125.3	14915.9	6.0	-59.0	99.9	301.5	4.1	6.9	-4.3	388.1	999.9	99.9	999.9	26.8	36.
18.0	134.3	16409.6	4.0	-51.2	99.9	343.7	3.7	1.1	-3.6	409.6	999.9	99.9	999.9	26.2	39.
18.1	147.0	18103.2	2.0	-61.8	99.9	35.5	4.8	-2.8	-3.9	443.4	999.9	99.9	999.9	25.0	41.
19.0	152.3	20745.7	1.0	-55.6	99.9	86.6	7.1	-7.1	-0.4	512.6	999.9	99.9	999.9	22.5	36.
19.1	162.3	25271.7	0.5	-48.0	99.9	89.9	6.3	-6.3	-0.0	646.7	999.9	99.9	999.9	18.9	20.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
# BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 553
OMAHA, NEBRASKA

29 MAY 1977
1100 GMT

147 11. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	0.3	400.0	960.0	16.8	15.8	180.0	1.5	0.0	1.5	293.4	324.2	11.9	94.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	9.1	499.2	950.0	19.6	17.7	292.9	4.7	4.3	-1.8	297.1	332.8	13.6	88.7	0.1	66.
1.3	11.0	720.6	925.0	19.2	16.8	283.0	4.7	4.6	-1.1	298.9	333.8	13.2	86.1	0.3	92.
2.2	13.2	956.5	900.0	17.4	15.1	274.9	4.1	4.1	-0.3	299.4	331.8	12.1	86.6	0.6	95.
3.1	15.3	1197.4	875.0	16.0	12.9	277.4	3.6	3.5	-0.5	300.4	329.4	10.8	82.0	0.9	94.
4.2	17.4	1443.7	850.0	14.4	11.0	280.4	2.1	2.0	-0.4	301.2	327.7	9.8	80.2	1.0	95.
5.3	19.5	1695.7	825.0	12.6	9.3	299.5	2.0	1.8	-1.0	301.9	326.4	9.0	80.3	1.1	96.
6.7	21.7	1953.9	800.0	11.3	7.2	313.2	3.5	2.6	-2.4	303.2	325.4	8.0	76.2	1.2	101.
7.4	24.0	2218.9	775.0	9.9	2.2	303.0	4.6	3.9	-2.5	304.4	320.8	5.8	58.7	1.5	106.
8.5	26.2	2490.7	750.0	7.8	-0.7	287.2	5.0	4.8	-1.5	305.1	319.0	4.9	54.9	1.8	107.
9.4	28.6	2769.9	725.0	6.6	-16.3	279.6	5.5	5.4	-0.9	306.7	312.3	1.9	21.7	2.1	107.
10.5	31.1	3056.6	700.0	4.6	-33.1	276.7	5.9	5.9	-0.7	307.6	308.8	0.3	4.4	2.5	105.
11.8	33.6	3351.7	675.0	2.7	-31.2	273.8	5.8	5.8	-0.4	308.7	310.1	0.4	6.3	2.9	104.
13.0	36.0	3654.8	650.0	-0.4	-20.3	272.4	5.8	5.8	-0.2	308.5	312.2	1.2	20.5	3.3	103.
14.3	38.7	3967.0	625.0	-3.4	-18.1	277.0	5.3	5.3	-0.7	308.6	313.1	1.5	30.8	3.7	102.
15.5	41.1	4287.9	600.0	-6.4	-17.4	279.2	5.0	5.0	-0.0	308.7	313.8	1.6	41.2	4.1	101.
16.7	43.9	4619.8	575.0	-7.4	-54.6	253.7	4.4	4.2	1.2	311.3	311.5	0.0	1.0	4.4	100.
18.2	46.9	4964.1	550.0	-10.4	-56.5	258.1	4.2	4.1	0.9	311.7	311.9	0.0	1.0	4.7	97.
19.5	49.7	5320.9	525.0	-12.2	-57.6	259.7	4.8	4.5	1.4	313.8	313.9	0.0	1.0	5.1	97.
20.9	52.4	5693.9	500.0	-13.4	-58.4	231.0	6.0	4.6	3.8	315.7	316.8	0.0	1.0	5.4	94.
22.3	55.8	6091.7	475.0	-15.9	-43.3	235.3	7.2	5.9	4.1	318.3	319.0	0.2	9.4	5.8	90.
23.5	58.5	6486.2	450.0	-19.4	-29.7	249.3	8.1	7.6	2.9	318.9	321.3	0.7	40.0	6.5	87.
25.7	61.9	6908.2	425.0	-22.7	-38.8	247.6	10.9	10.1	4.2	319.9	321.1	0.3	22.8	7.5	85.
27.5	65.2	7343.9	400.0	-26.4	-66.8	243.0	13.1	11.6	5.9	320.7	320.7	0.0	1.0	8.8	82.
29.3	68.6	7813.4	375.0	-30.6	-69.0	242.9	13.8	12.3	6.3	321.1	321.1	0.0	1.1	10.1	79.
31.3	72.1	8298.9	350.0	-34.4	-72.1	254.7	14.6	14.1	3.9	322.3	322.4	0.0	1.0	11.8	79.
33.2	75.0	8811.9	325.0	-39.1	-75.2	253.3	15.7	15.0	4.5	322.8	322.9	0.0	1.0	13.5	77.
35.5	80.0	9357.8	300.0	-41.7	99.9	244.3	21.0	18.9	9.1	326.6	999.9	99.9	999.9	15.8	77.
37.6	84.2	9947.6	275.0	-43.1	99.9	220.4	30.5	19.8	23.2	332.8	999.9	99.9	999.9	18.8	72.
39.4	88.4	10583.2	250.0	-47.9	99.9	212.1	37.5	19.9	31.7	335.0	999.9	99.9	999.9	22.7	64.
42.0	93.4	11272.9	225.0	-51.8	99.9	225.4	27.1	19.3	19.0	339.1	999.9	99.9	999.9	26.7	60.
44.7	98.8	12034.3	200.0	-52.9	99.9	220.5	17.3	11.3	13.2	349.1	999.9	99.9	999.9	29.9	59.
47.9	104.3	12890.0	175.0	-54.8	99.9	224.8	15.4	10.9	10.9	359.5	999.9	99.9	999.9	32.9	57.
51.4	110.2	13876.1	150.0	-54.3	99.9	999.9	999.9	99.9	99.9	376.6	999.9	99.9	999.9	999.9	999.
55.4	116.9	15034.4	125.0	-58.9	99.9	999.9	999.9	99.9	99.9	389.3	999.9	99.9	999.9	999.9	999.
60.3	124.7	16431.7	100.0	-59.3	99.9	999.9	999.9	99.9	99.9	413.1	999.9	99.9	999.9	999.9	999.
66.2	133.9	18227.0	75.0	-60.3	99.9	999.9	999.9	99.9	99.9	446.4	999.9	99.9	999.9	999.9	999.
73.9	141.0	20776.9	50.0	-55.3	99.9	999.9	999.9	99.9	99.9	513.3	999.9	99.9	999.9	999.9	999.
86.6	149.3	25258.6	25.0	-49.0	99.9	999.9	999.9	99.9	99.9	644.1	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 862
NORTH PLATTE, NEBRASKA

23 MAY 1977
1115 GMT

151 11. 0

TIME MIN	GATE	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	12.4	847.0	911.6	12.2	4.0	250.0	1.5	1.4	0.5	297.0	311.3	6.9	70.0	0.0	0.
99.3	99.3	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.8	13.7	955.1	903.0	14.0	10.2	283.7	10.4	10.1	-2.5	296.3	319.3	8.8	78.1	0.2	103.
1.4	15.7	1135.8	875.0	14.5	5.8	283.0	13.1	12.8	-2.9	303.0	321.5	8.6	63.4	0.8	103.
2.3	17.8	1443.4	850.0	16.7	4.4	283.0	13.7	13.3	-3.2	303.5	321.0	8.2	44.0	1.6	103.
3.2	20.1	1698.0	825.0	14.4	2.7	286.5	13.9	13.4	-4.0	303.9	319.9	5.7	45.2	2.4	104.
4.1	22.2	1956.1	800.0	12.4	0.3	283.4	12.3	11.9	-5.1	304.4	318.9	5.1	45.0	3.1	105.
5.1	24.5	2221.5	775.0	10.2	-0.6	281.0	10.7	10.0	-3.8	304.8	318.3	4.7	46.8	3.8	107.
6.0	26.7	2487.5	750.0	8.3	-1.9	283.0	8.5	7.9	-3.4	305.0	318.4	4.4	46.6	4.3	107.
7.1	29.2	2773.5	725.0	6.1	-3.7	283.2	9.3	9.7	-3.0	306.1	317.8	4.0	45.2	4.8	108.
8.0	31.7	3059.0	700.0	3.6	-4.7	287.4	7.7	7.4	-2.3	306.5	317.4	3.9	54.4	5.4	108.
9.1	34.3	3363.0	675.0	1.0	-4.2	297.0	5.4	5.2	-1.6	305.8	317.3	3.6	58.7	5.8	108.
10.0	36.7	3655.5	650.0	-1.7	-5.6	296.6	5.1	5.0	-1.3	307.6	318.0	3.5	65.3	6.1	109.
11.1	39.4	3966.7	625.0	-4.1	-9.2	278.3	5.1	5.1	-0.4	307.7	317.5	3.3	73.3	6.4	107.
12.2	42.3	4287.4	600.0	-6.3	-8.8	266.0	6.4	6.4	0.7	309.1	317.8	3.3	66.3	6.7	106.
13.4	44.7	4618.5	575.0	-8.5	-9.9	259.3	7.5	7.3	1.4	309.9	318.2	3.1	96.5	7.1	105.
14.5	47.3	4960.0	550.0	-11.8	-12.3	259.0	8.5	8.3	1.7	310.1	318.0	2.6	92.4	7.7	103.
15.4	50.7	5315.4	525.0	-13.7	-14.6	255.7	8.1	7.5	3.0	312.0	319.0	2.3	90.9	8.2	101.
16.3	53.3	5685.5	500.0	-16.6	-17.8	259.1	7.4	6.7	5.8	312.8	318.7	1.9	90.2	8.6	98.
17.2	56.3	6069.8	475.0	-19.2	-20.3	259.3	6.3	6.1	7.8	314.2	319.3	1.6	91.2	8.9	95.
18.5	60.1	6470.4	450.0	-21.5	-23.7	262.7	11.4	7.7	8.4	316.7	320.6	1.4	90.4	9.4	91.
21.0	63.7	6888.0	425.0	-24.5	-26.4	273.1	12.7	9.6	8.3	317.0	320.4	1.0	87.3	10.2	86.
22.7	67.1	7327.1	400.0	-28.0	-30.1	273.3	17.4	15.0	8.9	318.6	321.3	0.8	82.0	11.5	82.
24.1	70.8	7787.7	375.0	-31.0	-33.5	281.6	23.2	20.4	11.0	319.8	321.8	0.6	80.2	13.0	80.
25.3	74.6	8271.0	350.0	-35.7	-37.2	280.4	29.3	25.4	14.5	321.1	322.7	0.4	82.4	15.0	77.
27.1	78.7	8783.7	325.0	-40.7	99.0	284.0	37.7	30.3	14.8	321.1	999.9	99.9	999.9	18.2	74.
28.3	83.0	9327.1	300.0	-45.7	99.9	282.3	31.5	30.0	9.6	321.4	999.9	99.9	999.9	22.6	73.
31.0	87.3	9909.7	275.0	-44.4	99.9	280.1	31.1	31.1	5.4	325.1	999.9	99.9	999.9	27.1	74.
34.3	92.0	10534.4	250.0	-50.2	99.9	282.4	34.3	34.0	4.5	331.4	999.9	99.9	999.9	32.2	75.
37.2	97.0	11210.7	225.0	-51.4	99.9	285.4	32.8	32.7	2.6	339.7	999.9	99.9	999.9	37.9	76.
40.0	102.1	11974.1	200.0	-50.3	99.9	280.9	24.1	23.8	3.8	352.2	999.9	99.9	999.9	42.9	77.
43.1	109.3	12838.6	175.0	-54.1	99.9	280.9	17.1	15.0	8.3	360.6	999.9	99.9	999.9	46.2	77.
46.9	118.7	13923.5	150.0	-54.5	99.9	278.3	18.1	15.4	9.5	376.2	999.9	99.9	999.9	49.7	76.
51.5	129.0	14996.1	125.0	-57.0	99.9	275.0	16.9	12.1	11.7	390.2	999.9	99.9	999.9	54.1	73.
56.9	139.0	16209.7	100.0	-58.0	99.9	276.4	6.7	5.6	3.7	411.9	999.9	99.9	999.9	57.3	72.
63.7	148.7	18177.0	75.0	-62.4	99.9	151.4	4.1	-1.9	3.6	442.1	999.9	99.9	999.9	58.1	71.
72.3	147.6	20716.4	50.0	-56.0	99.9	99.9	4.8	-0.8	0.3	511.6	999.9	99.9	999.9	55.8	70.
88.2	157.0	25171.0	25.0	-50.6	99.9	999.9	999.9	99.9	99.9	633.5	999.9	99.9	999.9	49.5	67.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 654
HURON, SOUTH DAKOTA

28 MAY 1977
1100 GMT

147 13. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	0.0	392.0	959.0	12.2	12.2	170.0	1.5	-0.3	1.5	288.9	313.0	9.4	99.9	0.0	0.
99.9	99.9	99.9	1003.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	10.3	449.0	950.0	15.1	99.9	248.7	3.6	3.3	1.3	292.5	999.9	99.9	999.9	0.2	16.
1.0	12.3	590.7	925.0	16.8	9.0	269.9	4.3	4.3	0.0	296.5	317.5	7.8	60.2	0.3	37.
1.8	14.5	927.4	900.0	16.0	7.5	306.0	3.5	3.1	-2.3	298.1	317.8	7.3	56.8	0.4	68.
2.6	16.5	1154.2	875.0	18.6	-0.0	290.5	2.1	2.0	-0.7	303.2	315.7	4.4	28.5	0.5	82.
3.4	18.5	1412.2	850.0	17.7	-1.0	246.3	3.9	3.6	1.6	304.7	316.8	4.2	28.1	0.6	81.
4.4	20.9	1646.2	825.0	15.8	-3.7	233.0	4.5	3.6	2.7	305.3	315.7	3.5	25.9	0.8	73.
5.3	23.2	1894.0	800.0	13.3	-4.9	234.4	4.1	3.5	2.5	305.4	315.1	3.3	27.8	1.1	69.
6.2	25.5	2141.8	775.0	10.7	-4.7	233.8	3.7	3.0	2.2	305.3	315.5	3.5	33.5	1.3	66.
7.1	27.9	2367.5	750.0	7.9	-4.6	237.8	4.0	3.3	2.1	305.1	315.7	3.6	40.9	1.5	65.
8.1	30.2	2741.9	725.0	5.0	-4.7	228.9	3.7	2.8	2.4	305.0	315.8	3.7	49.3	1.7	64.
9.3	32.8	3027.1	700.0	3.1	-19.0	224.5	4.2	3.0	3.0	306.0	309.8	1.2	17.8	2.0	61.
10.3	35.1	3320.2	675.0	0.6	-21.9	225.2	5.7	4.1	4.0	306.3	309.4	1.0	16.7	2.3	59.
11.4	37.7	3621.9	650.0	-1.5	-24.4	229.2	7.1	5.3	4.6	307.3	309.9	0.8	15.4	2.7	57.
12.4	40.3	3932.8	625.0	-4.2	-23.3	234.0	8.1	6.6	4.8	307.7	310.6	0.9	20.9	3.1	56.
13.5	42.9	4253.0	600.0	-6.1	-28.9	234.4	8.6	7.0	5.0	309.1	311.0	0.6	14.4	3.7	56.
14.6	45.6	4584.4	575.0	-8.7	-30.6	238.7	8.7	7.4	4.5	309.8	311.5	0.5	15.0	4.3	56.
15.9	48.5	4934.7	550.0	-12.2	-28.8	247.1	9.7	9.0	3.8	309.7	311.9	0.6	23.4	4.9	57.
17.1	51.2	5281.3	525.0	-13.4	-35.7	247.0	11.4	10.4	4.4	312.4	313.6	0.3	13.6	5.7	59.
18.1	54.1	5651.3	500.0	-15.2	-38.1	239.9	10.3	8.9	5.3	314.5	315.5	0.3	12.0	6.4	59.
19.5	57.0	6035.4	475.0	-18.7	-36.0	224.8	9.4	6.6	6.7	314.9	316.1	0.4	19.8	7.2	58.
20.9	60.1	6437.6	450.0	-21.8	-36.7	224.1	9.8	6.8	7.1	315.5	317.1	0.4	24.3	8.0	57.
22.4	63.5	6854.1	425.0	-25.0	-36.2	213.5	9.1	5.0	7.6	316.9	318.3	0.4	24.2	8.8	55.
24.1	66.6	7293.1	400.0	-29.0	-36.2	203.0	9.8	3.8	9.0	317.4	318.9	0.4	45.4	9.6	52.
25.9	70.1	7751.4	375.0	-32.5	-38.5	198.9	12.5	4.1	11.9	318.6	319.8	0.4	54.5	10.6	49.
27.4	73.5	8234.3	350.0	-36.0	-43.8	195.3	14.5	3.8	14.0	320.2	321.0	0.2	44.0	11.7	46.
29.2	77.3	8744.4	325.0	-40.6	99.9	185.4	17.7	2.0	17.5	320.7	999.9	99.9	999.9	13.1	42.
31.2	81.2	9284.1	300.0	-45.3	99.9	179.6	19.1	-0.1	19.0	321.6	999.9	99.9	999.9	14.9	36.
33.3	85.3	9858.9	275.0	-50.0	99.9	177.4	13.9	-0.8	13.9	322.9	999.9	99.9	999.9	16.9	31.
35.8	90.5	10480.6	250.0	-49.7	99.9	167.9	19.4	-4.1	19.0	332.3	999.9	99.9	999.9	19.1	26.
38.2	94.2	11169.2	225.0	-50.1	99.9	174.1	17.9	-1.9	17.8	341.8	999.9	99.9	999.9	21.4	21.
41.0	99.0	11934.6	200.0	-50.6	99.9	195.7	14.3	3.9	13.8	352.7	999.9	99.9	999.9	24.0	20.
44.2	104.4	12804.9	175.0	-53.3	99.9	197.6	13.5	1.8	13.4	362.0	999.9	99.9	999.9	26.7	19.
48.1	110.4	13804.7	150.0	-51.7	99.9	215.2	11.9	7.0	9.6	381.0	999.9	99.9	999.9	29.4	19.
52.2	116.8	14974.0	125.0	-56.7	99.9	215.5	8.5	4.9	6.9	392.3	999.9	99.9	999.9	31.7	21.
57.6	124.5	16281.7	100.0	-59.1	99.9	191.1	4.9	0.9	4.8	413.6	999.9	99.9	999.9	33.9	21.
64.1	133.1	18177.8	75.0	-60.1	99.9	105.4	6.3	-6.1	1.7	446.9	999.9	99.9	999.9	34.0	20.
73.0	141.7	20749.9	50.0	-55.4	99.9	111.1	7.0	-6.5	2.5	513.1	999.9	99.9	999.9	34.4	15.
85.8	150.7	25217.8	25.0	-52.2	99.9	999.9	999.9	99.9	99.9	634.9	999.9	99.9	999.9	33.2	4.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 662
RAPID CITY, SOUTH DAKOTA

28 MAY 1977
1112 GMT

137 36. 0

TIME MIN	CNDC*	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.5	966.0	903.1	7.2	5.7	350.0	4.2	0.0	-4.2	288.9	305.7	6.4	90.0	0.0	0.
99.9	99.9	99.9	1300.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.0	14.5	966.9	900.0	7.3	5.6	356.3	4.3	0.3	-4.3	289.0	305.8	6.4	89.2	0.0	0.
1.0	14.4	1209.1	875.0	10.7	3.0	245.1	6.7	6.1	2.8	294.9	309.8	5.4	58.7	0.4	142.
1.9	15.0	1442.8	850.0	8.6	2.8	334.0	9.1	4.8	-6.5	295.2	309.9	5.4	65.5	0.7	141.
2.5	21.1	1683.1	825.0	6.9	1.5	321.2	7.9	4.9	-6.1	295.9	310.2	5.2	68.5	1.1	141.
3.6	23.5	1942.1	800.0	7.0	-0.3	332.8	5.8	2.7	-5.2	298.6	306.1	2.6	32.9	1.5	142.
4.5	25.8	2203.7	775.0	5.6	-5.3	315.1	4.3	3.0	-3.0	299.9	309.4	3.3	45.3	1.7	144.
5.5	28.2	2470.0	750.0	3.7	-4.3	289.3	4.6	4.3	-1.5	300.6	311.3	3.7	55.9	1.9	141.
6.3	30.7	2744.3	725.0	0.9	-4.4	274.9	4.7	4.7	-0.4	300.5	311.3	3.8	67.6	2.1	137.
7.2	33.3	3025.5	700.0	-1.5	-2.6	257.1	6.8	6.6	1.5	300.8	313.6	4.5	92.1	2.3	131.
8.2	35.8	3314.5	675.0	-3.8	-4.7	260.9	8.5	8.4	1.4	301.5	312.9	4.0	92.8	2.6	122.
9.4	38.4	3611.7	650.0	-6.1	-7.6	260.9	8.3	8.2	1.3	302.1	311.7	3.3	89.0	3.1	115.
10.4	40.9	3917.9	625.0	-9.0	-9.1	264.6	9.1	9.1	0.9	303.3	312.3	3.1	92.0	3.5	111.
11.6	43.7	4234.3	600.0	-9.3	-19.7	257.7	11.3	11.1	2.4	304.7	309.1	1.9	47.5	4.1	106.
12.6	46.6	4561.7	575.0	-11.5	-23.1	249.0	14.5	13.4	5.4	306.5	309.5	0.6	22.1	4.9	101.
14.0	49.6	4901.7	550.0	-13.0	-33.9	244.2	18.9	17.3	7.6	308.6	310.0	0.4	15.7	6.0	96.
15.2	52.8	5255.0	525.0	-14.9	-37.9	239.7	19.9	17.1	10.0	310.5	311.4	0.3	11.9	7.4	88.
16.4	55.4	5622.1	500.0	-17.4	-39.0	237.1	21.3	17.1	12.8	311.4	312.2	0.3	13.7	8.8	82.
17.8	58.5	6003.4	475.0	-20.9	-34.0	231.1	22.4	17.4	14.1	312.2	313.7	0.4	25.7	10.3	77.
19.1	61.9	6400.6	450.0	-24.0	-34.5	232.0	22.4	17.7	13.8	313.1	314.6	0.4	37.1	11.9	74.
20.5	65.2	6814.9	425.0	-27.0	-36.0	230.5	22.9	17.7	14.6	314.4	315.8	0.4	41.7	13.6	71.
21.9	68.6	7249.5	400.0	-30.0	-41.5	226.2	21.9	15.9	15.1	316.0	316.9	0.2	31.4	15.4	68.
23.4	72.3	7705.8	375.0	-33.4	-45.1	222.3	20.8	14.3	15.4	317.4	318.0	0.2	26.5	17.4	65.
25.5	76.0	8185.5	350.0	-37.9	-43.9	217.4	18.6	11.3	14.8	317.7	318.2	0.1	20.1	19.5	62.
27.3	80.0	8692.2	325.0	-41.6	99.9	208.8	17.3	8.4	15.2	319.4	999.9	99.9	999.9	21.2	60.
29.3	84.0	9229.3	300.0	-46.6	99.9	195.4	16.5	4.4	15.9	319.7	999.9	99.9	999.9	22.7	57.
31.7	88.2	9802.0	275.0	-50.3	99.9	207.4	15.2	7.5	14.4	322.4	999.9	99.9	999.9	24.4	54.
33.7	92.3	10413.3	250.0	-51.0	99.9	212.9	17.7	9.6	14.8	327.3	999.9	99.9	999.9	26.4	52.
35.3	97.8	11112.8	225.0	-50.6	99.9	224.1	19.6	13.7	14.1	331.0	999.9	99.9	999.9	28.4	51.
39.9	103.0	11872.8	200.0	-49.6	99.9	225.7	17.2	12.3	12.0	354.3	999.9	99.9	999.9	32.6	50.
42.6	108.8	12762.8	175.0	-47.4	99.9	219.8	15.2	9.7	11.7	371.1	999.9	99.9	999.9	35.9	50.
46.1	115.9	13787.8	150.0	-50.3	99.9	212.7	13.8	8.9	10.6	383.4	999.9	99.9	999.9	38.7	49.
50.6	122.3	14985.8	125.0	-54.9	99.9	197.4	8.9	2.7	8.3	395.6	999.9	99.9	999.9	41.5	47.
55.4	129.7	16356.1	100.0	-57.9	99.9	156.9	7.1	2.6	7.0	415.9	999.9	99.9	999.9	43.1	46.
63.2	134.0	18171.0	75.0	-58.4	99.9	136.2	5.4	-3.7	3.9	450.0	999.9	99.9	999.9	44.1	44.
71.1	140.0	20765.0	50.0	-53.9	99.9	70.5	4.8	-4.5	-1.6	516.8	999.9	99.9	999.9	43.9	40.
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 11001
MARSHALL SFC. ALABAMA

28 MAY 1977
1140 G4T

123 50. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PO DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	5.2	193.0	998.0	20.4	18.5	110.0	1.0	-0.9	0.3	294.5	330.1	13.7	89.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	999.9	999.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	7.3	301.9	975.0	20.2	17.4	999.9	999.9	99.9	99.9	295.5	329.3	13.0	83.9	999.9	999.
1.4	9.2	526.7	950.0	20.1	16.2	999.9	999.9	99.9	99.9	297.6	330.1	12.3	78.2	999.9	999.
2.5	11.1	757.0	925.0	19.3	14.9	177.9	2.6	-0.1	2.6	299.1	330.1	11.7	75.6	0.6	326.
3.4	13.1	992.7	900.0	17.2	14.2	173.8	2.6	-0.3	2.6	299.3	329.7	11.4	82.2	0.9	331.
4.6	15.1	1233.3	875.0	15.3	12.4	180.5	3.4	0.0	3.4	299.7	327.8	10.4	82.7	0.9	336.
5.5	17.0	1479.0	850.0	13.5	10.7	178.0	2.6	-0.1	2.6	300.3	326.2	9.6	83.6	1.1	341.
6.5	19.1	1730.1	825.0	11.5	8.8	149.8	2.9	-1.5	2.5	300.8	324.4	8.7	83.6	1.2	341.
7.5	21.1	1987.5	800.0	10.9	8.0	141.7	4.0	-2.5	3.1	302.0	325.2	8.5	86.3	1.5	338.
8.6	23.3	2251.6	775.0	8.7	6.9	147.7	3.5	-1.9	2.9	303.2	325.5	8.1	88.3	1.7	336.
9.8	25.4	2522.9	750.0	7.5	4.0	127.9	3.5	-2.7	2.1	304.7	323.9	6.8	76.3	1.9	334.
11.0	27.5	2801.1	725.0	5.1	2.0	107.9	2.6	-2.4	0.8	306.1	323.5	6.1	75.0	2.1	330.
12.3	29.8	3086.1	700.0	4.2	0.7	99.1	2.1	-2.1	0.3	307.2	323.6	5.8	77.9	2.2	327.
13.5	31.9	3378.4	675.0	2.3	0.1	105.6	2.0	-1.9	0.5	308.2	324.6	5.7	85.3	2.3	324.
14.8	34.1	3678.8	650.0	0.7	-4.3	151.2	1.3	-0.6	1.1	309.8	322.5	4.3	69.1	2.4	323.
16.0	36.5	4037.0	625.0	-1.4	-6.5	174.1	1.7	-0.2	1.7	310.6	321.9	3.8	65.4	2.5	324.
17.2	38.9	4326.8	600.0	-3.9	-7.5	171.0	2.3	-0.4	2.3	311.6	322.4	3.6	75.9	2.7	326.
18.3	41.3	4661.0	575.0	-7.2	-8.7	150.8	2.1	-0.7	2.0	311.6	322.0	3.4	88.6	2.9	327.
19.5	43.9	5004.0	550.0	-7.3	-23.9	143.0	1.5	-1.5	0.3	315.4	318.7	1.0	25.1	2.9	327.
20.9	46.4	5348.8	525.0	-8.6	-22.7	75.2	2.8	-2.7	-0.7	319.2	319.8	0.5	12.6	3.0	324.
22.4	49.1	5705.8	500.0	-10.4	-20.5	67.9	2.9	-2.7	-1.1	320.4	322.5	0.6	17.3	3.1	319.
23.9	51.8	6138.7	475.0	-12.9	-28.8	82.7	3.9	-3.9	-0.5	322.0	323.0	0.3	9.5	3.2	315.
25.4	54.6	6548.3	450.0	-16.3	-43.9	101.2	4.2	-4.2	0.8	322.8	323.4	0.2	7.1	3.5	310.
27.0	57.4	6974.0	425.0	-19.1	-44.9	114.0	2.1	-1.2	1.7	324.5	325.1	0.2	8.0	3.8	309.
28.5	60.4	7434.9	400.0	-22.6	-47.3	135.2	1.5	1.2	0.8	325.7	326.2	0.1	8.4	3.9	310.
30.1	63.4	7906.7	375.0	-25.8	-49.3	260.8	2.0	1.9	0.3	327.5	327.9	0.1	8.9	3.7	312.
31.8	66.6	8390.3	350.0	-30.3	-50.6	259.4	1.1	1.1	0.2	327.9	328.[illegible]	0.1	11.7	3.7	314.
33.5	70.0	8912.9	325.0	-34.1	-50.1	229.1	0.6	0.5	0.4	329.7	330.[illegible]	0.1	17.8	3.6	315.
35.6	73.4	9468.1	300.0	-38.8	-52.7	135.7	0.9	-0.6	0.6	330.6	331.0	0.1	21.3	3.7	316.
37.9	77.1	10053.6	275.0	-44.2	99.9	359.0	2.4	0.0	-2.4	331.2	999.9	99.9	999.9	3.5	314.
40.0	81.0	10681.0	250.0	-48.5	99.9	260.0	6.4	6.3	-2.2	334.0	999.9	99.9	999.9	3.1	315.
42.3	85.2	11375.0	225.0	-54.2	99.9	279.9	10.0	9.8	-1.7	335.4	999.9	99.9	999.9	2.8	332.
44.8	89.6	12130.9	200.0	-59.9	99.9	280.5	8.9	8.7	-1.6	337.8	999.9	99.9	999.9	1.9	17.
47.7	94.4	12960.6	175.0	-62.0	99.9	300.4	12.1	10.4	-6.1	347.6	999.9	99.9	999.9	2.4	55.
50.7	99.8	13838.9	150.0	-60.2	99.9	326.8	8.6	4.7	-7.2	355.3	999.9	99.9	999.9	3.1	95.
54.2	105.5	15034.4	125.0	-62.0	99.9	300.0	9.9	7.7	-6.5	382.7	999.9	99.9	999.9	4.6	105.
58.7	112.0	16414.4	100.0	-61.4	99.9	348.8	6.3	1.2	-6.2	409.1	999.9	99.9	999.9	6.6	115.
64.1	119.7	18130.7	75.0	-61.7	99.9	0.8	3.9	-0.1	-3.9	443.7	999.9	99.9	999.9	7.2	125.
71.5	128.0	20729.4	50.0	-57.4	99.9	999.9	99.9	99.9	99.9	508.2	999.9	99.9	999.9	999.9	999
99.9	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.

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** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

APPROVAL

DATA FOR NASA'S AVE VI EXPERIMENT: 25-mb SOUNDING DATA AND SYNOPTIC CHARTS

By Leonard R. Dupuis and Kelly Hill

The information in this report has been reviewed for security classification. Review of any information concerning Department of Defense or Atomic Energy Commission programs has been made by the MSFC Security Classification Officer. This report, in its entirety, has been determined to be unclassified.

This document has also been reviewed and approved for technical accuracy.

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